

## B. Sc. (Hons.) Agriculture (Soil Science)

Course Title	Course Code	Course Type	Credit Hour
<b>Semester 1</b>			
<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>
			<b>Total Credit Hours 16</b>
<b>Semester 2</b>			
<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>
			<b>Total Credit Hours 16</b>
<b>Semester 3</b>			
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>
			<b>Total Credit Hours 15</b>
<b>Semester 4</b>			
<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>
			<b>Total Credit Hours 15</b>
<b>Semester 5</b>			
Interdisciplinary	NA	Interdisciplinary	<u>0</u>
Irrigation Agronomy	AGR-301	Interdisciplinary	<u>3</u>
Instrumentation and Laboratory Techniques	SS-305	Major	<u>3</u>
Chemical Properties of Soil	SS-303	Major	<u>3</u>
Physical Properties of Soil	SS-301	Major	<u>3</u>
Tarjuma-e-Quran	HQ-005	Compulsory	<u>0</u>
Research and Experimental Planning	SS-307	Major	<u>2</u>
Soil Microbiology	SS-309	Major	<u>3</u>
			<b>Total Credit Hours 17</b>
<b>Semester 6</b>			
Introduction to Crop Modeling	AGR-312	Interdisciplinary	<u>3</u>
Soil and Water Conservation	SS-308	Major	<u>2</u>
Soil Survey and Land Evaluation	SS-306	Major	<u>3</u>
Soil Fertility and Fertilizer Use	SS-304	Major	<u>3</u>
Salt-Affected Soils and Water Quality	SS-302	Major	<u>3</u>
Tarjuma-e-Quran	HQ-006	Compulsory	<u>1</u>
			<b>Total Credit Hours 15</b>
<b>Semester 7</b>			
Principle of Biochemistry and Cell Biology	IBB-301	Major	<u>3</u>
Soil Genesis and Morphology	SS-407	Major	<u>3</u>
Carbon Sequestration in Soil	SS-405	Major	<u>2</u>
Municipal and Agro Waste Management	SS-403	Major	<u>3</u>
Soil-water-plant relationship	SS-401	Major	<u>3</u>
Tarjuma-e-Quran	HQ-007	Compulsory	<u>0</u>
Fundamentals of GIS	Geog-203	Major	<u>3</u>
			<b>Total Credit Hours 17</b>
<b>Semester 8</b>			
Capstone Project	SS-408	Major	<u>3</u>
N/A	N/A	Major	<u>0</u>
Internship	SS-406	Major	<u>3</u>
Land degradation and management	SS-404	Major	<u>3</u>
Applied Mathematics for Soil Science	SS-402	Major	<u>3</u>
Tarjuma-e-Quran	HQ-008	Compulsory	<u>1</u>
			<b>Total Credit Hours 13</b>

