

BS Data Science				
Semester 1	Summer 2026			
	Course Code	Course Title	Credit Hours	Sections
	CP103	Introduction to Computing	3	1
	CP101	Introduction to Computing – Lab	1	1
	GE102	Basic Electronics	2	1
	GE101	Basic Electronics – Lab	1	1
	ENG110	Functional English	3	1
	PAK102	Ideology and Constitution of Pakistan	2	1
	AL143	Discrete Structures	3	1
	MAT103	Pre-Calculus	3	1
Semester 2	Summer 2026			
	Course Code	Course Title	Credit Hours	Sections
	CP113	Programming Fundamentals	3	1
	CP111	Programming Fundamentals-LAB	1	1
	AR102	Digital Logic and Design	2	1
	AR101	Digital Logic and Design-LAB	1	1
	MAT113	Calculus and Analytical Geometry	3	1
	ENG211	Expository Writing	3	1
	CCE201	Civics and Community Engagement	2	1
	MAT123	Elementary Algebra	3	1
	DSMG1933	Introduction to Business	3	1
Semester 3	Summer 2026			
	Course Code	Course Title	Credit Hours	Sections
	CP223	Object Oriented Programming	3	1
	CP221	Object Oriented Programming-LAB	1	1
	AR223	Computer Organization and Assembly Language	3	1

Seme	AR221	Computer Organization and Assembly Language-LAB	1	1
	MAT253	Probability & Statistics	3	1
	SEP203	Professional Practices	2	1
	MAT243	Multivariate Calculus	3	1
	ENT102	Fundamentals of Entrepreneurship	2	1
Semester 4	Summer 2026			
	Course Code	Course Title	Credit Hours	Sections
	CP233	Data Structure	3	1
	CP231	Data Structure – Lab	1	1
	DB203	Database Systems	3	1
	DB201	Database Systems - Lab	1	1
	SS102	Fundamentals of Psychology	2	1
	DS202	Introduction to Data Science	2	1
	DS201	Introduction to Data Science - Lab	1	1
	MAT233	Linear Algebra	3	1
	ISL201	Islamic Studies	2	1
Semester 5	Summer 2026			
	Course Code	Course Title	Credit Hours	Sections
	DSNS3413	Operating Systems	3	1
	DSNS3411	Operating Systems-LAB	1	1
	DSSD3213	Software Engineering	3	1
	DSAL3523	Design and Analysis of Algorithms	3	1
	DSSS2853	Applied Statistics	3	1
	DSDS2143	Tools and Techniques for Data Science	3	1
	Summer 2026			
	Course Code	Course Title	Credit Hours	Sections
	DSAL3533	Artificial Intelligence	3	1

Semester 6	DSAL3531	Artificial Intelligence – Lab	1	1
	DSNS3423	Computer Communication and Networks	3	1
	DSNS3421	Computer Communication and Networks – Lab	1	1
	DSDS4472	Big Data Analytics	2	1
	DSDS4471	Big Data Analytics-Lab	1	1
Semester 7	Summer 2026			
	Course Code	Course Title	Credit Hours	Sections
	DSDB3332	Data Mining	2	1
	DSDB3331	Data Mining – Lab	1	1
	DSNS4433	Information Security	3	1
	DSAL4583	Introduction to Machine Learning	3	1
	DSDS3162	Exploratory Data Analysis & Visualization	2	1
	DSDS3161	Exploratory Data Analysis & Visualization	1	1
Semester 8	Summer 2026			
	Course Code	Course Title	Credit Hours	Sections
	DSNS3482	Parallel and Distributed Computing	2	1
	DSNS3481	Parallel and Distributed Computing - Lab	1	1
	DSGE4753	Professional Practices	3	1
	DSDS4152	Data Ware Housing and Business Intelligence	2	1
	DSDS4151	Data Ware Housing and Business Intelligence - Lab	1	1