

Tentative 4 Year Plan - CS Class of 2026 (version 2)

Sem 1 Fall 2022	Rhetoric and Communication 4 0	Calculus I 4 0	Natural Science 3 1	CS Freshman Seminar 1 0	Programming Fundamentals 2 1	Design your Habib Experience 0 1
Sem 2 Spring 2023	What is Modernity? 4 0	Calculus II 3 0	Natural Science 3 0/1	Discrete Mathematics 3 0	Data Structures & Algorithms 3 1	
Sem 3 Fall 2023	Pakistan & Modern South Asia 4 0	Engineering Mathematics 3 0	Digital Logic and Design 3 1	Database Systems 3 1	Object Oriented Programming 3 1	
Sem 4 Spring 2024	Hikma I 4 0	Linear Algebra 3 0	Probability and Statistics 3 0	Data Structures II 3 0	CS Systems Requirement 3 1	
Sem 5 Fall 2024	Scientific Methods 3 0	Jehan-e-Urdu 4 0		Nature of Computation 3 0	Operating Systems 3 1	Khidmat CS Elective 3 0/1
Sem 6 Spring 2025	Philosophy 3/4 0		Professional Practices 3 0	Algorithms: Design and Analysis 3 0	Software Engineering 3 0	CS Elective 3 0/1
Sem 7 Fall 2025	Free Elective* 3 0/1	Free Elective* 3 0/1	Free Elective* 3 0/1	Kaavish I 0 3	CS Elective 3 0/1	CS Elective 3 0/1
Sem 8 Spring 2026		Free Elective* 3 0/1	Free Elective* 3 0/1	Kaavish II 0 3	CS Elective 3 0/1	

Habib Liberal Core Requirements

Formal Reasoning	1
Quantitative Reasoning	1
Creative Practice	1
Natural Scientific Method & Analysis	1
Philosophical Thought	2
Historical and Social Thought	2
Language and Expression	2

CS

Other

CS Foundation	Pre-requisite
CS Kernel	Free Elective*
CS Elective	Natural Science 2
Other CS Requirement	Professional Practices 1

Creative Practice requirement is fulfilled via following courses:

CS 355 Database Systems
CS 224 Object Oriented Programming
CS 412 Algorithms: Design and Analysis
CS 353 Software Engineering

Last updated: 26-April- 2022

- All Core, CS, and Other requirements must be met.
- A course may simultaneously fulfill multiple requirements if they are shown in the same color.
- Extra courses must be taken in consultation with the advisor to meet any credit shortfall.
- At least one Natural Science course with lab is mandatory. NS course with lab or without lab can be taken in any order.
- CS Electives with lab (3+1) will be counted as one complete course. Student has to pass both Theory and Lab section for these.
- * -- The number of free electives attempted must be such that the total number of credit hours is at least 130. Any course offered at the university, including CS electives, can be counted as a Free Elective. The quantity and semester placement of the free electives shown above is for guidance only.
- PLAY 113 Design your Habib Experience can either be taken in the 1st or 2nd Semester only.