

Batch	CREDIT	CODE	COURSE NAME
B-49 13	3	SE 111	Computer Fundamentals
	1	SE 112	Computer Fundamentals Lab
	3	SE 113	Introduction to Software Engineering
	3	ENG 114/ ENG 101	English Reading, Writing Skills & Public Speaking/ English I
	3	GE 314/ BNS 101	Bangladesh Studies
B-48 13	3	MAT 124/ MAT 101	Math-I: Calculus & Geometry/ Mathematics I
	3	SE 121	Structured Programming
	1	SE 122	Structured Programming Lab
	3	PHY 125/ PHY 101	Physics: Mechanics, Electromagnetism & Waves/ Physics I
	3	SE 212	Software Requirement Specifications & Analysis
B-47 13	3	SE 213	Digital Electronics & Logic Design
	3	SE 123	Discrete Mathematics
	3	MAT 134/ MAT 102	Math-II: Linear Algebra & Fourier Analysis/ Mathematics II
	3	SE 131	Data Structure
	1	SE 132	Data Structure Lab
B-46 13	3	SE 133	Software Development Capstone Project
	3	SE223	Database Systems
	1	SE224	Database Systems Lab
	3	SE 222	Computer Architecture
	3	GE 115/ AOL 101	Art of Living
B-45 14	3	STA 135/ STA 101	Probability & Statistics in Software Engineering/ Statistics I
	3	SE214	Algorithms Design & Analysis
	1	SE215	Algorithms Design & Analysis Lab
	3	SE 216	Object Oriented Programming
	1	SE 217	Object Oriented Programming Lab
	3	SE 411	Software Project Management & Documentation
B-44 14	3	STA 135/ STA 101	Probability & Statistics in Software Engineering/ Statistics I
	3	SE232	Operating System & System Programming
	1	SE233	Operating System & System Programming Lab
	3	SE 231	System Analysis & Design Capstone Project

	3	SE 235	Desktop & Web Programming
	1	SE 236	Desktop & Web Programming Lab
B-43 14	3	SE 225	Data Communication & Computer Networking
	1	SE 226	Data Communication & Computer Networking Lab
	3	SE 311	Design Pattern
	3	SE 312	Software Quality Assurance & Testing
	1	SE 313	Software Quality Assurance & Testing Lab
	3	GE 324	Business Analysis & Communication
B-42 13	3	SE 332	Information System Security
	3	SE 331	Software Engineering Design Capstone Project
	3	SE 333	Artificial Intelligence
	1	SE 334	Artificial Intelligence Lab
	3	SE544/ SE XXX	Introduction to Machine Learning Guided Elective - II
B-41 12	3	SE 331	Software Engineering Design Capstone Project
	3	SE 442/ SE XXX	Management Information System/ Open Elective - I
	3	SE447/ SE XXX	Only)
	3	SE341/ SE XXX	Numerical Analysis / Guided Elective – III (Non-Major Only)
	2	DS 421	Machine Learning Driven Data Analysis I(DS Major)
	1	DS 422	Machine Learning Driven Data Analysis Lab I(DS Major)
	2	DS 423	Machine Learning Driven Data Analysis II and Communicating Data Insights (DS Major)
	1	DS 424	Machine Learning Driven Data Analysis II and Communicating Data Insights Lab (DS Major)
	2	ST 421	Testing with Generative AI
	1	ST 422	Testing with Generative AI Lab
	2	ST 423	Software Performance Engineering and Security Testing
	1	ST 424	Software Performance Engineering and Security Testing Lab
	2	RE 411	Embedded Systems Design & Development
	1	RE 412	Embedded Systems Design & Development Lab
	2	RE 423	Advanced Robotics
	1	RE 424	Advanced Robotics Lab
	3	CS422	Digital Forensic
	1	CS334	Ethical Hacking & Countermeasures

	2	CS335	Ethical Hacking & Countermeasures LAB
B-40 6	3	SE 441	Software Engineering Professional Ethics
	3	SE 411	Software Project Management & Documentation