

Bat ch	CRE	CODE	COURSE NAME
B-46 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-45 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-44 13	3	SE 213	Digital Electronics & Logic Design
	3	SE 133	Software Development Capstone Project
	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-43 13	3	SE223	Database Systems
	1	SE224	Database Systems Lab
	3	SE 222	Computer Architecture
	3	STA 135/ STA 101	Probability & Statistics in Software Engineering/ Statistics I
	3	GE 115/ AOL 101	Art of Living
B-42 14	3	SE 235	Desktop & Web Programming
	1	SE 236	Desktop & Web Programming Lab
	3	SE232	Operating System & System Programming
	1	SE233	Operating System & System Programming Lab
	3	GE235	Principles of Accounting, Business & Economics
	3	GE 324	Business Analysis & Communication
B-41 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-40 13	3	SE 332	Information System Security
	3	SE 442/ SE XXX	Management Information System/ Open Elective - I
	3	SE 333	Artificial Intelligence
	1	SE 334	Artificial Intelligence Lab
	3	SE544/ SE XXX	Introduction to Machine Learning Guided Elective - II
	3	SE 323	Software Architecture & Design
	3	SE 441	Software Engineering Professional Ethics
	3	SE447/ SE XXX	Human Computer Interaction/ Guided Elective – IV (Non-Major Only)

Bat ch	CRE	CODE	COURSE NAME
B-39 12	3	SE341/ SE XXX	Numerical Analysis / Guided Elective – III (Non-Major Only)
		CS422	Digital Forensic
		CS334	Ethical Hacking & Countermeasures
		CS335	Ethical Hacking & Countermeasures LAB
		DS 421	Machine Learning Driven Data Analysis I(DS Major)
		DS 422	Machine Learning Driven Data Analysis Lab I(DS Major)
		DS 423	Machine Learning Driven Data Analysis II and Communicating Data Insights (DS Major)
		DS 424	Machine Learning Driven Data Analysis II and Communicating Data Insights Lab (DS Major)
		RE 411	Embedded System Design & Development
		RE 412	Embedded System Design & Development Lab
		RE 423	Advanced Robotics
		RE 424	Advanced Robotics Lab
B-38 12	3	EMP101	Employability 360 (All)
	3	SE411	Software Project Management & Documentation
	3	SE 342	Compiler design (non-major only)
	3	SE444	Data Warehouse & Data Mining (non-major only)
		CS422	Digital Forensic
		CS334	Ethical Hacking & Countermeasures
		CS335	Ethical Hacking & Countermeasures LAB
		DS 421	Machine Learning Driven Data Analysis I(DS Major)
		DS 422	Machine Learning Driven Data Analysis Lab I(DS Major)
		DS 423	Machine Learning Driven Data Analysis II and Communicating Data Insights (DS Major)
		DS 424	Machine Learning Driven Data Analysis II and Communicating Data Insights Lab (DS Major)
		RE 411	Embedded System Design & Development
		RE 412	Embedded System Design & Development Lab
		RE 423	Advanced Robotics
		RE 424	Advanced Robotics Lab
B-37 6	3	EMP101	Employability 360 (All)
	3	GE324	Business Analysis & Communication