

Bachelor of Science in Computer Science and Engineering (BSCSE)

Department of Electrical and Computer Engineering

School of Engineering and Physical Sciences

North South University

Bashundhara, Dhaka-1229, Bangladesh

Total Credit Hours: 130

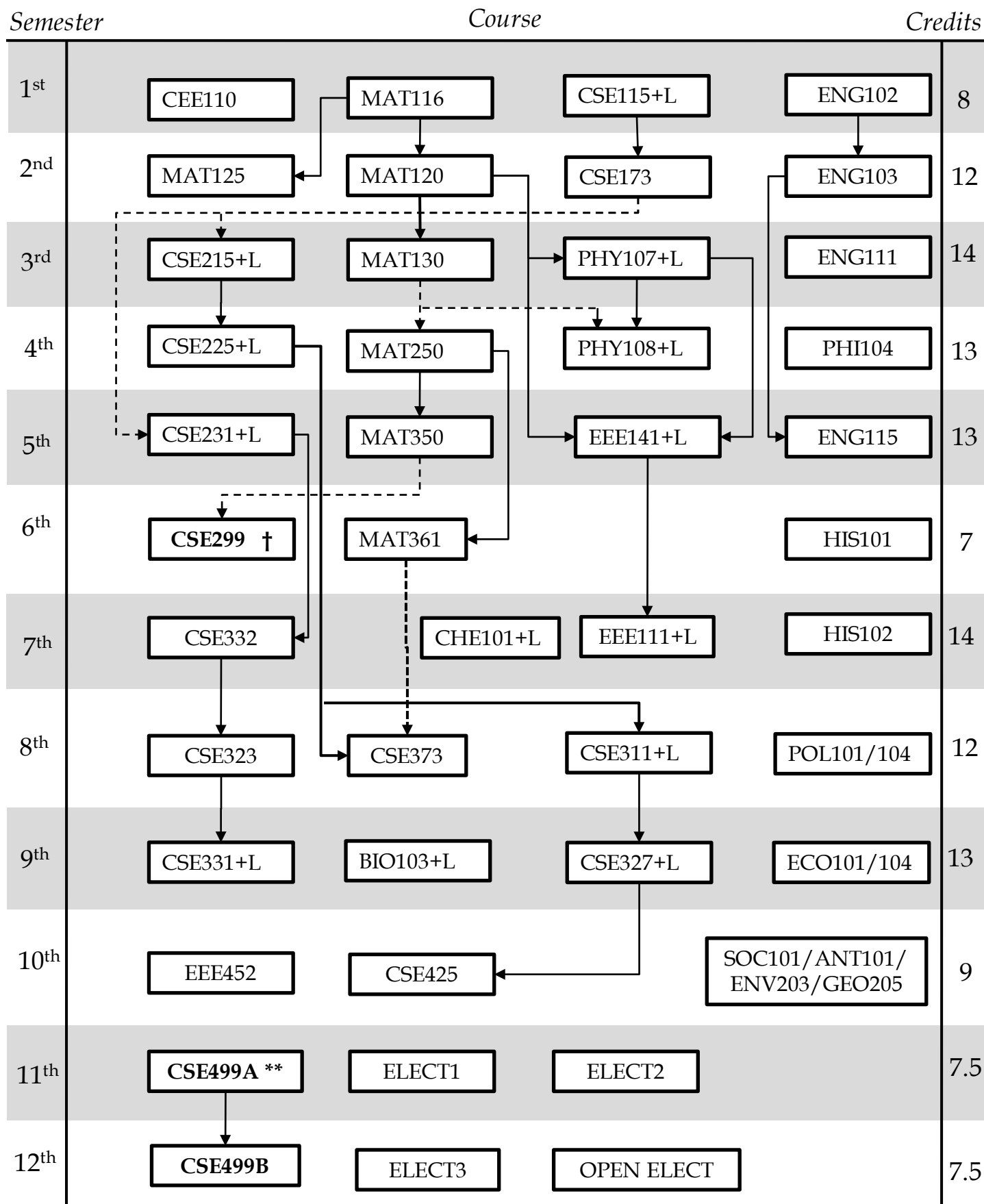
Semester/Year-wise breakdown of BSCSE courses

	Semester 1	Semester 2	Semester 3
1st Year	ENG 102 (3 cr.) MAT116 (0 cr.) CEE110 (1 cr.) CSE115 (4 cr.)	ENG 103 (3 cr.) MAT120 (3 cr.) MAT 125 (3 cr.) CSE173 (3 cr.)	ENG111 (3 cr.) MAT130 (3 cr.) PHY107+CL (4 cr.) CSE215+CL (4 cr.)
2nd Year	PHI104 (3 cr.) MAT250 (3 cr.) PHY108 +CL (4 cr.) CSE225+IL (3 cr.)	ENG115 (3 cr.) MAT350 (3 cr.) CSE231+IL (3 cr.) EEE141 + CL (4 cr.)	HIS101 (3 cr.) MAT 361 (3 cr.) CSE299 (1 cr.)
3rd Year	HIS102 (3 cr.) CHE 101+CL (4 cr.) EEE111 + CL (4 cr.) CSE 332 (3 cr.)	POL101/104 (3 cr.) CSE311+IL (3 cr.) CSE323 (3 cr.) CSE 373 (3 cr.)	ECO101/104 (3 cr.) BIO103+CL (4 cr.) CSE327 (3 cr.) CSE331 + IL (3 cr.)
4th Year	SOC101/ANT101/ENV203 /GEO205 (3 cr.) EEE452 (3 cr.) CSE425 (3 cr.)	ELECT1 (3 cr.) ELECT2 (3 cr.) CSE499A (1.5 cr.)	ELECT3 (3 cr.) OPEN ELECT (3 cr.) CSE499B (1.5 cr.)

Semester-wise Subjective sequences of courses and Prerequisite list - BSCSE

SEM.	COURSE	Cr.	Cr./Sem.	PREREQUISITES
1 st	ENG102: Introduction to Composition	3	8	
	MAT116: Pre-Calculus	0		
	CEE110 (Engineering Drawing)	1		
	CSE115+CL: Programming Language I	4		
2 nd	ENG 103: Intermediate Composition	3	12	ENG102/Waiver
	MAT120: Calculus I	3		MAT116
	MAT 125: Linear Algebra	3		MAT116
	CSE 173: Discrete Mathematics	3		CSE115
3 rd	ENG111: Public Speaking	3	14	
	MAT130: Calculus II	3		MAT120
	PHY107+CL: Physics I	4		MAT120
	CSE215 + CL : Programming Language II	4		CSE173
4 th	PHI104: Introduction to Ethics	3	13	
	MAT250: Calculus III	3		MAT130
	PHY108+CL: Physics II	4		MAT130 and PHY107
	CSE225 + IL : Data Structures and Algorithm	3		CSE215
5 th	ENG115: Literature	3	13	ENG103
	MAT350: Engineering Mathematics	3		MAT250
	EEE141 + CL: Electric Circuit I	4		PHY107 and MAT120
	CSE231 + IL: Digital Logic Design	3		CSE173
6 th	HIS101: Bangladesh Culture and Heritage	3	7	
	MAT 361: Probability and Statistics	3		MAT250
	CSE299: Junior Design	1		60 credits completed
7 th	HIS102: Introduction to World Civilization	3	14	
	CHE 101+CL: Chemistry I	4		MAT350
	EEE111 + CL: Analog Electronics I	4		EEE141
	CSE332 : Computer Organization and Architecture	3		CSE231
8 th	POL101/POL104: Introduction to Political Science/ Governance	3	12	
	CSE311 + IL : Database Systems	3		CSE225
	CSE323 : Operating Systems Design	3		CSE332
	CSE373 : Design and Analysis of Algorithms	3		CSE225 and MAT361
9 th	ECO101/ECO104: Introduction to Microeconomics/Macroeconomics	3	13	
	BIO103+CL: Biology I	4		
	CSE327 : Software Engineering	3		CSE311
	CSE331 : Microprocessor Interfacing and Embedded System + IL	3		CSE323
10 th	SOC101/ANT101/ENV203(GEO205): Introduction to Sociology/Anthropology/ Bangladesh Geography	3	9	
	CSE425: Concepts of Programming Language	3		CSE327
	EEE452: Engineering Economics	3		
11 th	ELECT1	3	7.5	
	ELECT2	3		
	CSE499A: Senior Design I	1.5		100 credits completed
12 th	ELECT3	3	7.5	
	OPEN ELECT	3		
	CSE499B: Senior Design II	1.5		CSE499A

Recommended Sequence of Courses for BSCSE



† after completion of 60 credits

** after completion of 100 credits and all core courses

Total: 130