



BRAC University
ECE Program

Standard Sequence of Courses

Semester	Courses				
1	ENG 101: English Fundamentals (3 credits)	PHY111: Principles of Physics I (3 credits)	CSE 110: Programming Language I (3 credits)	MAT 110: Mathematics I (3 credits)	
2	ENG 102: English Composition (3 credits)	HUM 103: Ethics and Culture (3 credits)	MAT 120: Mathematics II (3 credits)	DEV 101: Bangladesh Studies (3 credits)	STA 201: Elements of Statistics and Probability (3 credits)
3	MAT 215: Mathematics III (3 credits)	ECE 200: Electrical Circuits I (3 credits)	PHY 112: Principles of Physics II (3 credits)	ELECTIVE I (3 credits)	
4	MAT 216: Mathematics IV (3 credits)	ECE 201: Electrical Circuits II (3 credits)	ECE 202: Electronic Devices and Circuits I (3 credits)	PHY 210: Quantum Physics for Atoms, Solids and Nuclei (3 credits)	
5	ECE 203: Electronic Devices and Circuits II (3 credits)	ECE 220: Signals and Systems (3 credits)	ECE 230: Semiconductor Devices and Materials (3 credits)	ECE 210: Electromagnetic Waves and Fields (3 credits)	
6	CSE 260: Digital Logic Design (3 credits)	ECE 310: Introduction to Communication Engineering (3 credits)	ELECTIVE II (3 credits)	*COD I	
7	CSE 320: Data Communications (3 credits)	ECE 320: Microwave Engineering (3 credits)	CSE 350: Digital Electronics and Pulse Techniques (3 credits)	*COD II	
8	ECE 328: Digital Signal Processing (3 credits)	ECE 330: Telecommunication Switching Systems (3 credits)	ECE 360: Measurement & Instrumentation (3 credits)	ELECTIVE III (3 credits)	

9	CSE 460: VLSI Design (3 credits)	ECE 421: Wireless and Mobile Communications (3 credits)	*COD III (3 credits)	ELECTIVE IV (3 credits)	
10	ECE 400: Thesis/Project (1 credits) [Pre-thesis semester]	ELECTIVE V (3 credits)	ELECTIVE VI (3 credits)	ELECTIVE VII (3 credits)	
11	ECE 400: Thesis/Project (3 credits)				
12	ECE 401: Internship (non-credit and optional)				

*COD = COURSE OUTSIDE DEPARTMENT i.e. this course cannot be an ECE course (3 Credits)