

BRAC University

BSc EEE Program

Standard Sequence of Course

Semester	Courses			
1	ENG 101: English Fundamentals (3 credits)	PHY111: Principles of Physics I (3 credits)	MAT 110: Mathematics I (3 credits)	<p>[CSE 161: Computer Programming (3 credits) + CSE 162: Computer Programming Laboratory (1 credit)]</p> <p>OR</p> <p>ECO 105: Fundamentals of Economics (3 credits)</p>
2	ENG 102: English Composition (3 credits)	HUM 103: Ethics and Culture (3 credits)	DEV 101: Bangladesh Studies (3 credits)	
3	MAT 120: Mathematics II (3 credits)	PHY 112: Principles of Physics II (3 credits)	<p>EEE 201: Electrical Circuits I (3 credits)</p> <p>EEE 202: Electrical Circuits I Laboratory (1.5 credits)</p>	<p>ECO 105: Fundamentals of Economics (3 credits)</p> <p>OR</p> <p>[CSE 161: Computer Programming (3 credits) + CSE 162: Computer Programming Laboratory (1 credit)]</p>
4	MAT 215: Mathematics III (3 credits)	CHE 110: Principles of Chemistry (3 credits)	<p>EEE 203: Electrical Circuits II (3 credits)</p> <p>EEE 204: Electrical Circuits II Laboratory (1.5 credits)</p>	<p>EEE 205: Electronic Devices and Circuits I (3 credits)</p> <p>EEE 206: Electronic Devices and Circuits I Laboratory (1.5 credits)</p>
5	<p>EEE 207: Electronic Devices and Circuits II (3 credits)</p> <p>EEE 208: Electronic Devices and Circuits II Laboratory (1.5 credits)</p>	EEE 221: Energy Conversion I (3 credits)	MAT 216: Mathematics IV (3 credits)	EEE 209: Semiconductor Devices and Materials (3 credits)
6	<p>EEE 223: Energy Conversion II (3 credits)</p> <p>EEE 224: Energy Conversion Laboratory (1.5 credits)</p>	STA 201: Elements of Statistics and Probability (3 credits)	EEE 241: Electromagnetic Waves and Fields (3 credits)	EEE 243: Signals and Systems (3 credits)
7	CSE 330: Numerical Methods (3 credits)	ACT 201: Financial Accounting (3 credits)	<p>EEE 341: Introduction to Communication Engineering (3 credits)</p> <p>EEE 342: Introduction to Communication Engineering Laboratory (1.5 credits)</p>	<p>EEE 343: Digital Signal Processing (3 credits)</p> <p>EEE 344: Digital Signal Processing Laboratory (1.5 credits)</p>

8	EEE 305: Control Systems (3 credits) EEE 306: Control Systems Laboratory (1.5 credits)	EEE 301: Digital Electronics (3 credits) EEE 302: Digital Electronics Laboratory (1.5 credits)	MGT 211: Principles of Management (3 credits)	ELECTIVE I
9	EEE 400: Thesis/Project [1 st semester, Pre-thesis semester]	EEE 365: Microprocessors (3 credits) EEE 366: Microprocessors Laboratory (1.5 credits)	ELECTIVE II	*COMA (3 credits)
10	EEE 400: Thesis/Project [2 nd semester]	ELECTIVE III	ELECTIVE IV	
11	EEE 400: Thesis/Project (6 credits) [3 rd semester, payment + final grade semester]	ELECTIVE V [if needed]	*COMA (3 credits)	
12	EEE 401: Internship (non-credit and optional)			

*COMA = **Course Outside Major Area** i.e. this course cannot be an EEE course