

**Bachelor of Science in Electrical Engineering  
Study Plan (Fall Start)**

**Total Credit Hours: 135**

**First Year (Freshman)**

Semester 1

Code	Title	Cr.	Prerequisite
ARL 100	Communication Skills in Arabic I	3	Nil
ENG 100	English I	3	TOEFL 500
STT 100	General Statistics	3	Nil
UNS 100	University Study Skills	3	Nil
MTT 102	Calculus I	3	Calc Placement Test or MTT 101

**Total Credit Hours 15**

Semester 2

Code	Title	Cr.	Prerequisite
ENG 105	English II	3	ENG 100 ('C' grade) + UNS 100
PHY 102	Physics and Engineering Applications I	3	MTT 102
PHY 102L	Physics and Engineering Applications I Lab	1	MTT 102 + PHY 102 (co-req.)
MTT 200	Calculus II	3	MTT 102
ISL 100	Islamic Culture	3	Nil
CEN 200	Introduction to Electrical and Comp. Eng.	3	MTT 101

**Total Credit Hours 16**

**Second Year (Sophomore)**

Semester 3

Code	Title	Cr.	Prerequisite
CSC 201	Structured Programming	3	MTT 101 or Higher
EEN 210	Digital Circuits	3	CEN200
MTT 201	Calculus III	3	MTT 200
CHE 205	General Chemistry I	3	ENG 100 (Co) + UNS 100 (Co)
CHE 201L	Chemistry Lab	1	ENG 105 + CHE 205 (co-req.)
PHY 201	Physics and Engineering Applications II	3	PHY 102
PHY 201L	Physics and Engineering Applications II Lab	1	PHY 102 + PHY 201 (co-req.)

**Total Credit Hours 17**

Semester 4

Code	Title	Cr.	Prerequisite
CEN 201	Electric Circuits	3	CEN 200 or PHY201
OE 1	Open Elective I	3	
GEN 200	Engineering Economy	3	ENG 105 + MTT 102
MTT 204	Introduction to Linear Algebra	3	MTT 200 + MTT 205(Co)
MTT 205	Differential Equations	3	MTT 200 + MTT 204(Co)
SOC 201	UAE and GCC Society	3	Nil

**Total Credit Hours 18**

**Third Year (Junior)**

Semester 5

Code	Title	Cr.	Prerequisite
ENG 201	Business and Technical Communication	3	ENG 105
EEN 220	Circuits II	3	CEN 201
CEN 304	Electronic Devices and Circuits	3	CEN 201
CEN 320	Signals and Systems	3	MTT 205
EEN 338	Electromagnetic Fields and Waves	3	MTT 201 (Co)+MTT 205+PHY 201
CEN 305	Microprocessors and Firmware Programm.	3	CSC 201

**Total Credit Hours 18**

Summer Semester

Code	Title	Cr.	Prerequisite
EEN 399i	Internship	3	90 Credit Hours

Semester 6

Code	Title	Cr.	Prerequisite
EEN 330	Random Signals and Noise	3	CEN 320
EEN 335	Introduction to Communication Systems	3	CEN 320
EEN 340	Energy Conversion	3	EEN 220+EEN 338
EEN 345	Power Systems	3	EEN 220
EEN 360	Electronics Circuits	3	CEN 304
EEN 365	Control Systems	3	MTT 204+CEN 320

**Total Credit Hours 18**

**Fourth Year (Senior)**

Semester 7

Code	Title	Cr.	Prerequisite
EEN 336	Communication systems	3	EEN 330+EEN 335
CSC 305	Data Communications and Networks	3	Junior Level
ME 1	Major Elective 1	3	
ME 2	Major Elective 2	3	
PSY 201	General Psychology	3	Nil

**Total Credit Hours 15**

Semester 8

Code	Title	Cr.	Prerequisite
EEN 450	Design Project (Capstone)	3	Senior Level
CIV 402	Engineering Ethics	3	Senior Level
ME 3	Major Elective 3	3	
OE 2	Open Elective 2	3	
OE 3	Open Elective 3	3	

**Total Credit Hours 15**