

**Bachelor of Science in Electrical Engineering  
Study Plan**

Total Credit Hours **132**

**First Year (Freshman)**

Semester I (FALL)

Code	Title	Credit	Prerequisite(s)
ARL 100 (A)	Communication Skills in Arabic I	3	No Prerequisite
ENG 100	English I	3	No Prerequisite
MTT 102	Calculus I	3	Math Placement Test/MTT 101
STT 100	General Statistics	3	No Prerequisite
UNS 100	University Study Skills	3	No Prerequisite

*Total Credit Hours* 15

Semester II (SPRING)

Code	Title	Credit	Prerequisite(s)
CEN 200	Introduction to Electrical and Computer Engineering	3	MTT 101
CSC 201	Structured Programming	3	MTT 102
EEN 210	Digital Circuits	3	MTT 102
ENG 105	English II	3	ENG 100 + UNS 100
MTT 200	Calculus II	3	MTT 102
PHY 102	Physics and Engineering Applications I	3	MTT 102

*Total Credit Hours* 18

**Second Year (Sophomore)**

Semester III (FALL)

Code	Title	Credit	Prerequisite(s)
ENG 201	Business and Technical Communications	3	ENG 105
CHE 201	Chemistry	3	ENG 105
ISL 100 (A)	Islamic Culture	3	No Prerequisite
MTT 201	Calculus III	3	MTT 200
PHY 201	Physics and Engineering Applications II	3	PHY 102

*Total Credit Hours* 15

Semester IV (SPRING)

Code	Title	Credit	Prerequisite(s)
CEN 201	Electric Circuits	3	PHY 201 (+ MTT 205 as corequisite)
CEN 305	Microprocessors and Firmware Programming	3	CSC 201
ECO 201	Microeconomics Analysis and Applications	3	ENG 105
MTT 204	Introduction to Linear Algebra	3	MTT 201
MTT 205	Differential Equations	3	MTT 201
SOC 201	UAE and GCC Society	3	No Prerequisite

*Total Credit Hours* 18

**Third Year (Junior)**

Semester V (FALL)

Code	Title	Credit	Prerequisite(s)
CEN 304	Electronic Devices and Circuits	3	CEN 201
CEN 320	Signals and Systems	3	MTT 205
EEN 220	Electric Circuits II	3	CEN 201
EEN 338	Electromagnetic Fields and Waves	3	MTT 205 + PHY 201
PSY 201	General Psychology	3	No Prerequisite

*Total Credit Hours* 15

Semester VI (SPRING)

Code	Title	Credit	Prerequisite(s)
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

Summer Semester

Code	Title	Credit	Prerequisite(s)
EEN 399	Internship	3	90 Credit Hours

Semester VII (FALL)

Code	Title	Credit	Prerequisite(s)
CSC 305	Data Communications and Networks	3	CEN 305
EEN 336	Communication Systems	3	EEN 330 + EEN 335
ME1	Major Elective I	3	-
ME2	Major Elective II	3	-
OE1	Open Elective I	3	-

*Total Credit Hours* 15

**Fourth Year (Senior)**

Semester VIII (SPRING)

Code	Title	Credit	Prerequisite(s)
CIV 402	Engineering Ethics	3	Senior Level
EEN 450	Design Project (Capstone)	3	Senior Level
ME3	Major Elective III	3	-
OE2	Open Elective II	3	-
OE3	Open Elective III	3	-

*Total Credit Hours* 15