

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

Total Credit Hours **144**

**First Year (Freshman)**

Semester I (FALL)

Semester II (SPRING)

Code	Title	Credit	Prerequisite(s)
ARL 100 (A)	Communication Skills in Arabic I	3	No Prerequisite
ENG 100	English I	3	No Prerequisite
ITE 100	Introduction to Information Technology Applications	3	No Prerequisite
MTT 101	Mathematics for Science and Technology	3	MTG 100/Math Placement Test
STT 100	General Statistics	3	No Prerequisite
UNS 100	University Study Skills	3	No Prerequisite

*Total Credit Hours* 18

Code	Title	Credit	Prerequisite(s)
ARL 105 (A)	Communication Skills in Arabic II	3	ARL 100 (A)
ENG 105	English II	3	ENG 100 + UNS 100
ISL 100 (A)	Islamic Culture	3	No Prerequisite
MTT 202	Discrete Mathematics	3	MTT 101
PSY 201	General Psychology	3	No Prerequisite
SOC 201	UAE and GCC Society	3	No Prerequisite

*Total Credit Hours* 18

**Second Year (Sophomore)**

Semester III (FALL)

Semester IV (SPRING)

Code	Title	Credit	Prerequisite(s)
CEN 200	Introduction to Electrical and Computer Engineering	3	ITE 100 + MTT 101
CSC 201	Structured Programming	3	MTT 101
CSC 303	Digital Logic Design	3	MTT 202
ENG 201	Business and Technical Communications	3	ENG 105
MTT 102	Calculus I	3	MTT 101
STT 201	Intermediate Statistics and Research Methods	3	STT 100

*Total Credit Hours* 18

Code	Title	Credit	Prerequisite(s)
CSC 202	Object Oriented Programming	3	CSC 201
CEN 201	Electric Circuits	3	CEN 200 + MTT 102
CSC 304	Microprocessor Architecture and Assembly Language	3	CSC 303
MTT 200	Calculus II	3	MTT 102
MTT 204	Introduction to Linear Algebra	3	MTT 102
PHY 102	Physics and Engineering Applications I	3	MTT 102

*Total Credit Hours* 18

**Third Year (Junior)**

Semester V (FALL)

Semester VI (SPRING)

Code	Title	Credit	Prerequisite(s)
CEN 304	Electronic Devices and Circuits	3	CEN 201
CSC 301	Data Structures and Algorithms	3	CSC 202
CSC 305	Data Communications and Networks	3	STT 201
MTT 201	Calculus III	3	MTT 200
NSC 201	Natural Sciences	3	No Prerequisite
PHY 201	Physics and Engineering Applications II	3	PHY 102

*Total Credit Hours* 18

Code	Title	Credit	Prerequisite(s)
CEN 305	Microprocessors and Firmware Programming	3	CSC 202 + CEN 304 + CSC 304
CSC 308	Operating Systems	3	CSC 301
CSC 311	Java Programming for the Internet	3	CSC 202
OE1	Open Elective I	3	-
OE2	Open Elective II	3	-
PHI 300	Professional Ethics	3	ENG 105

*Total Credit Hours* 18

Summer Semester

Code	Title	Credit	Prerequisite(s)
CEN 399	Internship in Computer Engineering	3	90 Credit Hours

**Fourth Year (Senior)**

Semester VII (FALL)

Semester VIII (SPRING)

Code	Title	Credit	Prerequisite(s)
CEN 320	Signals and Systems	3	MTT 204 + MTT 201
CEN 405	Embedded Networks	3	CEN 305/CEN 310, CSC 305
CEN 466	Advanced Digital System Design	3	CSC 303
OE3	Open Elective III	3	-
OE4	Open Elective IV	3	-
OE5	Open Elective V	3	-

*Total Credit Hours* 18

Code	Title	Credit	Prerequisite(s)
CEN 415	Embedded Linux System Design	3	CEN 405 + CSC 308
CEN 450	Design Project	3	Senior Level
CEN 464	Digital Signal Processing	3	CEN 320
CSC 408	Computer Networks and Distributed Systems	3	CSC 305
OE6	Open Elective VI	3	-

*Total Credit Hours* 15