Bachelor of Science in Computer Engineering Study Plan (Fall Start)

First Year (Freshman)

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Semester 1	

Code	Title	Cr.	Prerequisite
ARL 100	Communication Skills in Arabic I	3	nil
ENG 200	English II	3	*EPSS / ENG100(C grade)+ (Co) UNS102
MTT 102	Calculus I	3	C grade in MTT 101 or MPT
STT 100	General Statistics	3	nil
ISL 100	Islamic Culture	3	nil
LINS 102	University Study Skills	1	nil

Semester 2			
Code	Title	Cr.	Prerequisite
CEN 200	Introduction to Electrical & Computer Eng.	3	MTT 101 or equivalent
CRT 301	Critical Thinking	2	UNS 102 + ENG 200
PSY 201	General Psychology	3	ENG 100 + (Co) UNS 102
PHY 102	Physics and Engineering Applications I	3	MTT 102
PHY 102 L	Physics and Engineering Applications I Lab	1	MTT 102+PHY 102 (co-req)
MTT 200	Calculus II	3	MTT 102

Total Credit Hours: 134

Cr. Prerequisite

15

Total Credit Hours

Total Credit Hours 15

Second Year (Sophomore) Semester 3

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Title

Code	Title	Cr.	Prerequisite
CSC 201	Structured Programming	3	MTT 101 or Higher
PHY 201	Physics and Engineering Applications II	3	PHY 102
PHY 201 L	Physics and Engineering Applications II Lab	1	PHY 102+PHY 201 (co-req)
CSC 303	Digital Logic Design	3	CEN 200
STT 201	Intermediate Statistics and Research Methods	3	STT 100
MTT 201	Calculus III	3	MTT 200

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201 (co-req)	

CSC 202 Object Oriented Programming CSC 201 CEN 201 CEN 200 or PHY201 Electric Circuits 3 MTT 202 Discrete Mathematics 3 STT 100 Introduction to Linear Algebra MTT 204 MTT 200 MTT 200+MTT 204 (Co-req) MTT 205 Differential Equations

Total Credit Hours

16

Total Credit Hours

5

Semester

Code	Title	Cr.	Prerequisite
CEN 320	Signals and Systems	3	MTT 205
CSC 301	Data Structures and Algorithms	3	CSC 202
CSC 305	Data Communications and Networks	3	Junior Level
CEN 305	Microprocessors & Firmware Programming	3	CSC 201
ENG 305	Technical Communications for Eng.& Science	3	ENG 200
OE 1	Open Elective I	3	

Third Year (Junior)

Code

Semester 6

Code	Title	Cr.	Prerequisite
CSC 304	Microprocessor Architecture and Assembly Language	3	CSC 303
CSC 308	Operating Systems	3	CSC 301
CSC 311	Java Programming for the Internet	3	CSC 201
INE300	Introduction to Entrepreneurship and Innovation	3	ENG200 + Completion of 60 chrs
ME 1	Major Elective I	3	
SOC 201	UAE and GCC Society	3	ENG 100 + (Co) UNS 102

Total Credit Hours 18

Summer Semester

Total Credit Hours 18

I	Code	Title	Cr.	Prerequisite
	CEN 399	Internship	3	90 Credit Hours

Fourth Year (Senior)

Semester 7

Title	Cr.	Prerequisite
Embedded Networks	3	CEN 305, CSC 305 (Co-req)
Advanced Digital System Design	3	CSC 303
Electronic Devices and Circuits	3	CEN 201
Major Elective II	3	-
Major Elective III	3	1
Computer Engineering Design Project I	1	Senior level
	Embedded Networks Advanced Digital System Design Electronic Devices and Circuits Major Elective II Major Elective III	Embedded Networks 3 Advanced Digital System Design 3 Electronic Devices and Circuits 3 Major Elective II 3 Major Elective III 3

Semester 8

Code	Title	Cr.	Prerequisite
CEN 415	Embedded Linux System Design	3	CEN 405, CSC 308 (Co-req)
CSC 408	Computer Networks and Distributed Systems	3	CSC 305
CEN 464	Digital Signal Processing	3	CEN 320
CEN 450B	Computer Engineering Design Project II	2	CEN 450A
CIV 402	Engineering Ethics	3	Senior level
OE2	Open Elective	3	

Total Credit Hours 16

Total Credit Hours 17

^{*}Note: English Proficiency Specified Score: Score of 1250+ & B2 (CEFR) in Writing Component for EmSat or/ 5.5 overall average & 5.5 specific score in Writing Component for IELTS, equivalent in other English Proficiency Test