

Bachelor of Science in Electrical Engineering
Study Plan (Fall Start)
First Year (Freshman)

138

Total Credit Hours:

Semester 1				Semester 2			
Code	Title	Cr.	Prerequisite	Code	Title	Cr.	Prerequisite
ARL101(A)	Comm. Skills in Arabic Lang.	3	Nil	FWS205	UAE and GCC Society	3	ENG102 (P) & FWS100 (El) / FWS100 as pre-requisite FWS100(E) / US501 as co-requisite if students enter to ENG200 directly
ES100	Intro. to Engr. & Computing	3	Nil	ENG200	English II	3	ELTS average score of 6 or EHSAT average score of 600 or above
MTT102	Calculus I	3	Math Placement Test or MTT101 (C grade)	COE101	Introductory Artificial Intelligence	3	ST1100
STT100	General Statistics	3	Nil	PHY102	Physics & Engr.- Applications I	3	MTT102
ISL100(A)	Islamic Culture	3	Nil	PHY102L	Physics & Engr.- Applications I, Lab	1	MTT102, PHY102(co)
Total Credit Hours				MTT200	Calculus II	3	MTT102
Total Credit Hours				Total Credit Hours			
Second Year (Sophomore)				Third Year (Junior)			
Semester 3				Semester 4			
Code	Title	Cr.	Prerequisite	Code	Title	Cr.	Prerequisite
CSC201	Computer Programming I	3	MTT101 or higher	CEN325	IoT: Foundation & Design	3	CSC201, EEN210
PHY201	Physics & Engr. Applications II	3	PHY102	CEN333	Cross-platform Mobile App. Develop.	3	CSC201
PHY201L	Physics & Engr. Applications II, Lab	1	PHY102, PHY201(co)	CEN201	Electric Circuits I	3	ECG100 or PHY201, EEN210L
EN210L	Digital Circuits Lab	1	EN210(co)	COE202	Engineering Ethics, Economy, and Law	3	ENG200, MTT102
EN210	Digital Circuits	3	ECG100	MTT205	Differential Equations	3	MTT200, MTT204(co)
CHE205	General Chemistry I	3	ENG200/ENG102(co)	MTT204	Introduction to Linear Algebra	3	MTT200
CHE201L	Chemistry Lab	1	CH205(co)	Total Credit Hours			
MTT201	Calculus III	3	MTT200	Total Credit Hours			
Total Credit Hours				Total Credit Hours			
Summer Semester				Fourth Year (Senior)			
Code	Title	Cr.	Prerequisite	Code	Title	Cr.	Prerequisite
EN399i	Internship in Electrical Engineering I	2	90 Credit Hours	EEN399i	Internship in Electrical Engineering II	1	EN399i
Total Credit Hours				Total Credit Hours			
Semester 7				Semester 8			
Code	Title	Cr.	Prerequisite	Code	Title	Cr.	Prerequisite
EN448	Electrical Installation and Design	3	EEN345	EEN340	Energy Conversion	3	EN220, EEN338
CSC305	Data Communications and Networks	3	Junior Level	ME3	Major Elective III	3	
ME2	Major Elective II	3		EEN349	Renewable Energy	3	EEN345
CEN464L	Signal Processing, Lab	1	CEN464(co)	EEN452	Electrical Engineering Design Project II	2	EEN451
OE1	Open Elective I	3		EEN339	Communication Systems	3	CEN330, EEN337
CEN464	Digital Signal Processing	3	CEN320	OE2	Open Elective II	3	
EN451	Electrical Engineering Design Project I	1	Senior Level	Total Credit Hours			
Total Credit Hours				Total Credit Hours			

Fourth Year (Senior)			
Winter Semester			
Code	Title	Cr.	Prerequisite
EEN399i	Internship in Electrical Engineering II	1	EN399i
Total Credit Hours			
Summer Semester			
Code	Title	Cr.	Prerequisite
EN448	Electrical Installation and Design	3	EEN345
CSC305	Data Communications and Networks	3	Junior Level
ME2	Major Elective II	3	
CEN464L	Signal Processing, Lab	1	CEN464(co)
OE1	Open Elective I	3	
CEN464	Digital Signal Processing	3	CEN320
EN451	Electrical Engineering Design Project I	1	Senior Level
Total Credit Hours			