Ministry of Education
Al-Fayha College
Jubail 31961, Saudi Arabia

وزارة التعليم
كلية الفيحاء
الجبيل 31961، المملكة العربية السعودية

COMPUTER SCIENCE & ENGINEERING (CSE) BS DEGREE
CSE Four-Year Study Plan With Prerequisites

Freshman Year

Course	Title	LT	LB	CR	Pre-Requisites	Course	Title	LT	LB	CR	Pre-Requisites
MATH 101	Calculus I	4	0	4	None	MATH 102	Calculus II	4	0	4	MATH-101
PHYS 101	General Physics I	3	3	4	MATH 101-CR	PHYS 102	General Physics II	3	3	4	PHYS-101
CHEM 101	General Chemistry I	3	3	4	None	CSE 101	Introduction to Computer Programming	2	3	3	None
ENGL 101	Introduction to Academic Discourse	3	0	3	None	ENGL 102	Introduction to Report Writing	3	0	3	ENGL-101
AIS 101	Language Foundation	2	0	2	None	AIS 111	Belief & Its Consequences	2	0	2	None
	Total	15	6	17			**Total**	14	6	16	

Sophomore Year

Course	Title	LT	LB	CR	Pre-Requisites	Course	Title	LT	LB	CR	Pre-Requisites
EE 201	Electric Circuits I	3	3	4	MATH 102, PHYS 102	CSE 201	Digital Logic Design	3	3	4	PHYS 102
ENGL 201	Academic & Professional Communication	3	0	3	ENGL 102	CSE 202	Object-Oriented Programming	3	3	4	CSE 101
MATH 201	Calculus III	3	0	3	MATH-102	MATH 202	Differential Equations	3	0	3	MATH 201
MATH 203	Linear Algebra	3	0	3	MATH-102	STAT 200	Eng. Probability & Statistics	2	3	3	MATH 102
PRO 201	Engineering Profession I	2	0	2	None	AIS 211	Ethics and Governance	2	0	2	AIS-111
AIS 201	Professional Writing	2	0	2	AIS-101						
	Total	16	3	17			**Total**	13	9	16	

Junior Year

Course	Title	LT	LB	CR	Pre-Requisites	Course	Title	LT	LB	CR	Pre-Requisites
CSE 203	Introduction to Data Science	2	3	3	CSE 101, STAT 200	CSE 302	Data Structures	3	0	3	CSE 202
CSE 301	Computer Organizational & Architecture	3	3	4	CSE 201	CSE 303	Discrete Structures & Algorithms Analysis	3	0	3	CSE 202
EE 203	Electronics I	3	3	4	EE 201	CSE 304	Computer Networks	3	3	4	CSE 202, STAT 200
EE 301	Signals & Systems	3	0	3	EE 201	SOS xxx	Social Science Elective I	3	0	3	None
AIS 301	Effective Language Communication	2	0	2	AIS-201	PRO 301	Engineering Profession II	2	0	2	PRO 201
						AIS 311	Human Rights in Islam	2	0	2	AIS-211
	Total	13	9	16			**Total**	16	3	17	

Summer Session

						Course	Title	LT	LB	CR	
						CSE 399	Summer Training	0	0	0	

Senior Year

Course	Title	LT	LB	CR	Pre-Requisites	Course	Title	LT	LB	CR	Pre-Requisites
CSE 401	Embedded Systems	3	3	4	CSE 301, EE 203	CSE 402	Operating Systems	3	0	3	CSE 301
CSE 4xx	CSE Elective I	3	0	3	As per opted elective	CSE 4xx	CSE Elective II	3	0	3	As per opted elective
SOS xxx	Social Science Elective II	3	0	3	None	XXX xxx	Free Elective II	3	0	3	None
XXX xxx	Free Elective I	3	0	3	None	XXX xxx	Free Elective III	3	0	3	None
PRO 401	Engineering Profession III	2	0	2	PRO-301	CSE 492	Senior Design Project II	4	0	4	CSE-491
CSE 491	Senior Design Project I	2	0	2	Senior Standing						
	Total	16	3	17			**Total**	16	0	16	

Total Credit Hours		132