

Computer Engineering Curriculum - Internship Option

Four-year Academic Plan

Digital/Business Foundation



جامعة الملك فهد للبترول والمعادن
King Fahd University of Petroleum & Minerals

Freshman Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr	
MATH 101	Calculus I	4	0	4	MATH 102	Calculus II	4	0	4	
PHYS 101	General Physics I	3	3	4	PHYS 102	General Physics II	3	3	4	
CHEM 101	Principles of Chemical Science I	3	3	4	ENGL 102	Intro. to Report Writing	3	0	3	
ENGL 101	Intro. to Academic Discourse	3	0	3	ICS 108	Object Oriented Programing	3	3	4	
ICS 104	Intro. to Programm. In Python & C	2	3	3	IAS 111	Belief & its Consequences	2	0	2	
					PE 101	Health and Physical Education I	0	2	1	
Total				15	9	18	Total			
							15	8	18	

Sophomore Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr	
ISE 291	Intro. to Data Science	3	0	3	COE 292	Intro. to Artificial Intelligence	3	0	3	
COE 202	Digital Logic Design	3	0	3	COE 301	Computer Organization	3	3	4	
COE 203	Digital Logic Design Lab	0	3	1	COE 241	Data & Comp. Communications	3	0	3	
ICS 202	Data Structure & Algo.	3	3	4	STAT 319	Prob. & Stat. for Eng. & Scientists	2	3	3	
MATH 201	Calculus III	3	0	3	ICS 253	Discrete Structures	3	0	3	
IAS 121	Language Foundation	2	0	2	IAS 212	Ethics and Governance	2	0	2	
Total				14	6	16	Total			
							16	6	18	

Junior Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr	
COE 302	Design & Modeling of Dig. Sys.	3	0	3	COE 306	Introduction to Embedded Sys.	3	3	4	
COE 344	Computer Networks	3	3	4	COE 346	Computer & Network Security	3	0	3	
MATH 208	Intro. to Diff. Eq. & Linear Algebra	3	0	3	COE 384	Fundam. of Computer Eng. Design	3	3	4	
EE 236	Electronic Circuits	3	0	3	COE 4xx	Major Elective I	3	0	3	
EE 237	Electronic Circuits Lab	0	3	1	BUS 200	Business & Entrepreneurship	3	0	3	
ENGL 214	Academic & Professional Comm.	3	0	3	CGS 392	Career Essentials	0	2	1	
Total				15	6	17	Total			
							15	8	18	

Senior Year

Course	Title	LT	LB	Cr
COE 398	Internship	0	0	6
COE 411	Senior Design Project I	0	1	0
Total		0	1	6

Course	Title	LT	LB	Cr
COE 412	Senior Design Project II	0	6	3
COE 4xx	Major Elective II	3	0	3
COE 4xx	Major Elective III	3	0	3
ICS 433	Operating Systems	3	1	3
IAS xxx	Islamic/Arabic Elective	2	0	2
GS xxx	GS Elective	3	0	3
Total		14	7	17

Total Credit Hours 128