

Course No.	Course Title	CR.H.	Prereq.	Course No.	Course Title	CR.H.	Prereq.
First: General Education of Program (33) CR.H.							
(1) Compulsory Courses (27) CR.H.							
0102120	Computer Skills	3		0104330	Circuit Analysis II	3	0104230
0201111	Science and Life	3		0104331	Electronic Circuits	3	0104230
0401120	English (1)	3		0104333	Digital Electronics	3	0104331 & 0104240
0401121	English (2)	3	0401120	0104340	Computer Architecture	3	0102240
0405100	Arabic Language	3		0104350	Microprocessor and Assembly Language	3	0102240
0406110	Islamic Culture	3		0104351	Microprocessor and Assembly Language Lab	1	0104350
				0104352	Control Systems	3	0106330
0408100	Introduction to Psychology	3		0104440	Digital Systems Design	3	0102240
0501170	Fundamentals to Innovation and Entrepreneurship	3		0104450	Embedded Systems	3	0104350
0508203	Scientific Research Methodology	3		0105400	Computer Network Protocols	3	0106320 & 0107103
(2) Elective Courses (6) CR.H.							
The Student is required to choose <u>Only One</u> course from each of the following groups:							
(a) Society and Civilization on (3) CR.H.							
0406100	Arabs and Muslims Contributions to Arts and Science	3		0106330	Signals and Systems Analysis	3	0107202
0408101A	Physical Education & Health	3		0107104	Calculus II	3	0407101
0409100	Ethical Awareness	3					
0409101	Arab Society	3		0107202	Engineering Math	3	0107104
0409102	Environmental Awareness	3		0108203	Physics II	3	0108103
(b) Managerial Skills (3) CR.H.							
0303100	Law and Society	3		0108204	Physics II Lab	1	0108203
0408103	Thinking Skills	3					
0408104	Self Assessment	3					
0501100	Introduction to Time Management	3					
0501150	Leadership and Teamwork	3					
(2) Elective Courses (6) CR.H.							
Second: Compulsory College Requirements (24) CR.H.							
				0102308	Introduction to Artificial Intelligence	3	0102220 & 0107200
				0102330	Database Systems	3	0102221
0102220	Introduction to Programming	3	0102120	0102451	Distributed Systems	3	0102340 & 0105400
0107101	Calculus I	3		0104430	VLSI Systems and Design	3	0104333
0107102	Linear Algebra	3	0107101	0104441	Advanced Computer Architecture	3	0104340
				0106430	Digital Signal Processing	3	0106330
0107103	Probability Theory and Statistics	3	0107101	Fourth: Compulsory Supporting Courses (7) CR.H.			
0107200	Discrete Structures	3					
0107201	Introduction to Numerical Methods	3	0107102 & 0107104				
0108103	Physics I	3					
0201100	Chemistry	3		0102340	Operating Systems	3	0102240
				0103220	Foundation of Software Engineering	3	0102120
				0108104	Physics I Lab	1	0108103
Third: Specialization on Course (70) CR.H.							
(1) Compulsory Courses (64) CR.H.							
0102221	Object-Oriented Programming	3	0102220	0104580	CE Internship	3	>= 75 CR.H.
0102240	Computer Organization	3	0104240	Sixth: Capstone Project (3) CR.H.			
0102270	Data Structures and Algorithms	3	0102221				
0104230	Circuit Analysis I	3	0108203				
0104231	Circuit Analysis Lab	1	0104230				
0104240	Digital Logic Design	3	0107200	0104590	Capstone Project I	1	>= 90 CR.H. + Dept. Approval
0104241	Digital Logic Design Lab	1	0104240	0104591	Capstone Project II	2	0104590