

# Computer Engineering Curriculum - Summer Training 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			
				<b>Total</b>					<b>Total</b>	<b>15</b>	<b>8</b>	<b>18</b>

## 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								
				<b>Total</b>					<b>Total</b>	<b>14</b>	<b>6</b>	<b>16</b>

## 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	BUS 200	Business & Entrepreneurship	3	0	3

EE 237	Electronic Circuits Lab	0	3	1	CGS 392	Career Essentials	0	2	1
ENGL 214	Academic & Professional Comm.	3	0	3					

**Total**    15    6    17

**Total**    12    8    15

**Summer Session**

COE 399	Summer Training	0	0	1
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**Senior Year**

COE 411	Senio Design Project I	0	1	0	COE 412	Senior Design Project II	0	6	3
ICS 433	Operating Systems	3	1	3	COE4xx	Major Elective III	3	0	3
COE 4xx	Major Elective I	3	0	3	COE 4xx	Major Elective IV	3	0	3
COE 4xx	Major Elective II	3	0	3	IAS xxx	Islamic/Arabic Elective	2	0	2
XXX xxx	Free Elective	3	0	3	GS xxx	GS Elective	3	0	3
IAS 212	Ethics and Governance	2	0	2					

**Total**    11    6    14

**Total**    14    2    14

**Total Credit Hours**    129