

Computer Engineering Curriculum with Coop

COURSE	TITLE	LT	LB	CR	COURSE	TITLE	LT	LB	CR
Preparatory Year									
ENGL 001	Preparatory English I	15	5	8	ENGL 002	Preparatory English II	15	5	8
MATH 001	Preparatory Math I	3	1	4	MATH 002	Preparatory Math II	3	1	4
PYP 001	Prep. Physical Sciences	2	0	2	PYP 002	Prep. Computer Sciences	0	2	1
PYP 003	University Study Skills	0	2	1	ME 003	Prep. Eng. Technology	0	2	1
PE 001	Prep. Physical Educ. I	0	2	1	PE 002	Prep. Physical Educ. II	0	2	1
		20	10	16			18	12	15
Total credit hours required in Preparatory Program: 31									
First Year (Freshman)									
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	General Chemistry I	3	3	4	ICS 102	Intro. to Computing	2	3	3
ENGL 101	Intro. to Acad. Discourse	3	0	3	ENGL 102	Intro. to Report Writing	3	0	3
IAS 111	Belief and its Conseq.	2	0	2	IAS 101	Practical Grammar	2	0	2
					PE 101	Physical Education I	0	2	1
		15	6	17			14	8	17
Second Year (Sophomore)									
COE 202	Digital Logic Design	3	0	3	COE 205	Comp. Org. & Ass. Lang.	3	3	4
EE 201	Electric Circuits I	3	3	4	COE 203	Digital Logic Laboratory	0	3	1
ICS 201	Introduction to CS	3	3	4	ICS 202	Data Structures	3	3	4
MATH 201	Calculus III	3	0	3	ICS 252	Discrete Structures	3	0	3
IAS 212	Professional Ethics	2	0	2	MATH 260	Linear Alg. & Diff. Equ.	3	0	3
PE 102	Physical Education II	0	2	1	ENGL 214	Acad. & Prof. Comm.	3	0	3
		14	8	17			15	9	18
Third Year (Junior)									
COE 305	Microcomp. Syst. Design	3	3	4	COE 308	Computer Architecture	3	0	3
STAT 319	Prob. & Stat. For Eng. & Sc.	2	3	3	COE 442	Computer Networks	3	3	4
COE 342	Data & Computer Comm.	3	0	3	COE 390	Seminar	1	0	1
COE/ICS/SWE xxx	IT Elective	3	0	3	COE 360	Principles of VLSI Desig.	3	0	3
EE 203	Electronics I	3	3	4	ICS 334	Database Systems	3	3	4
IAS 201	Writing for Prof. Needs	2	0	2	IAS 311	Islamic Shariah	2	0	2
		16	9	19			15	6	17
Summer Training					COE 350	Cooperative Work	0	0	0
Fourth Year (Senior)									
COE 351	Coop. Work (cont.)	0	0	9	COE 400	System Design Lab.	1	6	3
					COE 4xx	COE Elective	3	0	3
					ICS 431	Operating Systems	3	3	4
					XXX xxx	General Elective	3	0	3
					IAS 301	Oral Communication Skills	2	0	2
					IAS 4xx	IAS Elective	2	0	2
		0	0	9			15	9	17
Total credit hours required in Degree Program: 131									