

### Computer Engineering Curriculum-Cooperative Work Option

Course	Title	LT	LB	CR	Course	Title	LT	LB	CR
<b>PREPARATORY YEAR</b>									
ENGL 01-xx	Prep. English I (First Quarter)	15	5	4	ENGL 03-xx	Prep. English III (First Quarter)	15	5	4
ENGL 02-xx	Prep. English II (Second Quarter)			4	ENGL 04-xx	Prep. English IV (Second Quarter)			4
MATH 001	Prep. Math I	3	1	4	MATH 002	Prep. Math II	3	1	4
PYP 001	Prep. Physical Science	2	0	2	PYP 002	Prep. Computer Science	0	2	1
PYP 003	Life Skills	0	2	1	PYP 004	Prep. Eng. Technology	0	2	1
PE 001	Prep. Health and Physical Educ. I	0	2	1	PE 002	Prep. Health and Physical Educ. II	0	2	1
		<b>20</b>	<b>10</b>	<b>16</b>			<b>18</b>	<b>12</b>	<b>15</b>
<b>Total Credit Hours Required in Preparatory Program: 31</b>									
<b>FIRST YEAR (FRESHMAN)</b>									
CHEM 101	General Chemistry I	3	4	4	PHYS 102	General Physics II	3	3	4
ENGL 101	Intro. To Academic Discourse	3	0	3	ICS 102	Intro. To Computing I	2	3	3
IAS 111	Belief and Its Effects	2	0	2	MATH 102	Calculus II	4	0	4
MATH 101	Calculus I	4	0	4	ENGL 102	Intro. To Report Writing	3	0	3
PHYS 101	General Physics I	3	3	4	IAS 101	Practical Grammar	2	0	2
PE 101	Health and Physical Educ. I	0	2	1	PE 102	Health and Physical Educ. II	0	2	1
		<b>15</b>	<b>9</b>	<b>18</b>			<b>14</b>	<b>8</b>	<b>17</b>
<b>SECOND YEAR (SOPHOMORE)</b>									
COE 202	Digital Logic Design	3	0	3	ICS 202	Data Structures	3	3	4
COE 203	Digital Logic Design Lab	0	3	1	ICS 253	Discrete Structures I	3	0	3
ICS 201	Intro. To Computing II	3	3	4	EE 203	Electronics I	3	3	4
EE 202	Electrical Circuits I	3	0	3	IAS 212	Professional Ethics	2	0	2
EE 212	Electrical Circuits Laboratory	0	3	1	COE 241	Data and Computer Comm.	3	0	3
MATH 201	Calculus III	3	0	3	STAT 319	Probability and Stat. for Eng. And Scientists	2	3	3
IAS 201	Objective Writing	2	0	2					
		<b>14</b>	<b>9</b>	<b>17</b>			<b>16</b>	<b>9</b>	<b>19</b>
<b>THIRD YEAR (JUNIOR)</b>									
MATH 208	Intro. To Differential Eq. & Linear Algebra	3	0	3	COE 306	Intro. To Embedded Systems	3	3	4
ENGL 214	Academic & Professional Comm.	3	0	3	COE 4xx	COE Depth Elective	3	0	3
IAS 301	Language Comm. Skills	2	0	2	GS xxx	GS Elective I	3	0	3
COE 301	Computer Organization	3	3	4	COE 300	Principles of Computer Eng. Design	1	3	2
COE 344	Computer Networks	3	3	4	ICS 324	Database Systems	3	3	4
ISE 307	Eng. Economic Analysis	3	0	3	IAS 322	Human Rights in Islam	2	0	2
		<b>17</b>	<b>6</b>	<b>19</b>			<b>15</b>	<b>9</b>	<b>18</b>
<b>Summer Session</b>					COE 350	Begin Cooperative Work	<b>0</b>	<b>0</b>	<b>0</b>
<b>FOURTH YEAR (SENIOR)</b>									
COE 351	Cooperative Work	0	0	9	COE 485	Senior Design Project	1	6	3
					ICS 431	Operating Systems	3	3	4
					COE 4xx	COE Elective I	3	0	3
					COE 4xx	COE Elective II	3	0	3
					GS xxx	GS Elective II	3	0	3
		<b>0</b>	<b>0</b>	<b>9</b>			<b>13</b>	<b>9</b>	<b>16</b>
<b>Total Credit Hours Required in Degree Program: 133</b>									