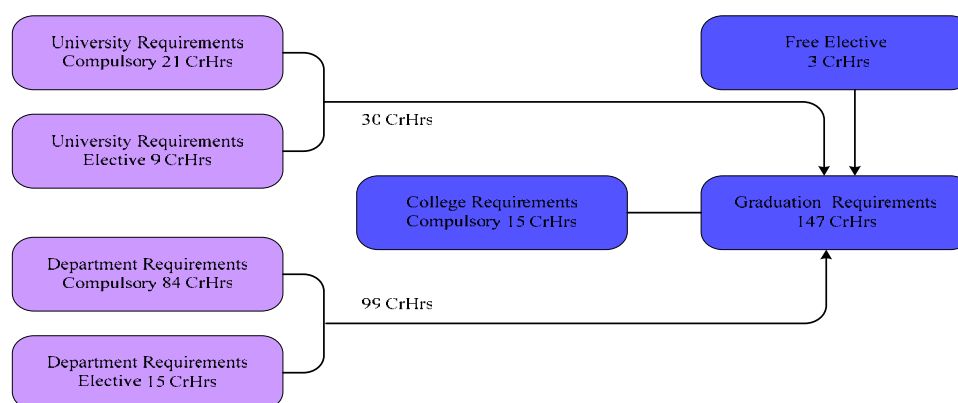


## 1. Graduation Credit Hours (CrHrs) Requirements for the Department:

Requirements	Compulsory CrHrs	Elective CrHrs	Free Elective CrHrs	Total CrHrs
University (UR)	21	9		30
College (CR)	15			15
Department (DR)	84	15		99
Free Elective (FE)			3	3
<b>Total</b>	<b>120</b>		<b>27</b>	<b>147</b>

### Program Structure:



## 2. University Requirements: (30) Credit Hours divided into:

- Compulsory 21 Credit Hours.
- Electives 9 Credit Hours.

### a. Compulsory University Requirements: (21) Credit Hours

Course Number	Course Title	Theory Hours	Lab Hours	Credit Hours	Prerequisite(s)
000001	IU Orientation	1	-	-	-
101101	Computing Fundamentals	2	2	3	-
104100	General Mathematics	3	-	3	-
304100	Introduction to Natural Sciences	3	-	3	-
401100	English Language I	3	-	3	-
401101	English Language II	3	-	3	401100
402100	Arabic Language I	3	-	3	-
403100	Islamic Culture	3	-	3	-
<b>Total</b>				<b>21</b>	

N.B.: Exemption from any one of the above courses shall be decided by the university council.

**b. Elective University Requirements: (9) Credit Hours to be chosen from:**

Course Number	Course Title	Theory Hours	Lab Hours	Credit Hours	Prerequisite(s)
202120	Introduction to Management	3	-	3	-
202220	Principles of Economics	3	-	3	-
203230	Principles of Accounting	3	-	3	-
301101	Research Methodology	3	-	3	-
301112	Foundations of education	3	-	3	-
401103	Technical Report Writing	3	-	3	401101
401242	Oral Skills	3	-	3	401101
401245	Reading Skills	3	-	3	401100
401246	Writing Skills	3	-	3	401101
402101	Arabic Language II	3	-	3	402100
403101	Islamic Civilization	3	-	3	-
404100	UAE Society	3	-	3	-
404101	Introduction to Sociology	3	-	3	-
404102	Library and Information Sources	3	-	3	-
404110	Media & Multimedia	3	-	3	-
405100	Introduction to Psychology	3	-	3	-

**3. College Requirements: Compulsory (15) Credit Hours:**

Course Number	Course Title	Theory Hours	Lab Hours	Credit Hours	Prerequisite(s)
101110	Programming I	2	2	3	101101
104101	Mathematics I	4	-	4	104100
104102	Mathematics II	4	-	4	104101
105201	Physics	3	-	3	104101
105291	Physics Lab.	-	2	1	105201 / Co.
<b>Total</b>				<b>15</b>	

#### **4. Department Requirements: (99) Credit Hours:**

- a. Compulsory 84 Credit Hours.
- b. Electives 15 Credit Hours.

#### **a. Compulsory department requirements for Computer Engineering: (84) Credit Hours**

Course Number	Course Title	Theory Hours	Lab Hours	Credit Hours	Prerequisite(s)
101211	Programming II	2	2	3	101110
101230	Data Structures & Algorithms	3	-	3	104231 101211
101312	Computer Org. & Assembly Prog.	2	2	3	103302 101110
101351	Data Communication & Networking	2	2	3	101110
101408	Ethical Aspects of Eng. & CS	3	-	3	Earned 70 CrHrs
101440	Operating Systems	2	2	3	101230 102320
101461	IT/ Marketing Research	1	-	1	Earned 70 CrHrs
102320	Computer Architecture	3	-	3	101312
102411	Embedded Systems	3	-	3	102320
102428	Digital Communications	3	-	3	101351
102490	Microcomputer Systems Design Lab	-	6	3	102411
102492	Digital Communications Lab	-	2	1	102428/Co
102493	CE Seminar	1	-	1	Earned 100 CrHrs
102510	Computer Interfacing	3	-	3	101312
102594	Senior Project I	-	-	3	Earned 100 CrHrs
102595	Training	-	-	3	Earned 80 CrHrs
102596	Senior Project II	-	-	3	102594
103300	EE Fundamentals I	3	-	3	105201
103301	EE Fundamentals II	3	-	3	103300
103302	Digital Logic Design I	3	-	3	101101
103340	Digital Logic Design II	3	-	3	103302
103390	EE Fundamentals Lab I	-	3	1	103300 /Co.
103391	EE Fundamentals Lab II	-	3	1	103390 103301/Co
103392	Digital Design Lab.	-	2	1	103340/Co.
103430	Digital Circuits & Systems	2	2	3	103301 103302
104204	Mathematics III	3	-	3	104102
104230	Introduction to Probability & Statistics	3	-	3	104100
104231	Discrete Mathematics	3	-	3	104100
104320	Numerical Methods	2	2	3	104102
104410	Mathematics IV	3	-	3	104204
107400	Systems & Signal Analysis	3	-	3	104410
108400	Control Systems	3	-	3	104410
<b>Total</b>				<b>84</b>	

**b. Elective department requirements for Computer Engineering: (15) Credit Hours to be chosen from:**

Course Number	Course Title	Lec Hours	Lab Hours	Credit Hours	Prerequisite(s)
101220	File & Storage Structures	3	-	3	101230
101322	Software Specification & Design	3	-	3	101230
101324	Database Management Systems	2	2	3	101211
101414	Object Oriented Programming	2	2	3	101230
101416	Security & Cryptography	3	-	3	101230
101434	Coding & Information Theory	3	-	3	101230
101442	Systems Programming	2	2	3	101312
101490	Computer Software Lab.	-	6	3	Earned 70 CrHrs
102401	Selected Topics in Computer Eng	X	Y	3	Dept. approval
102423	Advanced Computer Architecture	3	-	3	102320
102521	Microprocessor System Design	3	-	3	103430 102320
103403	Introduction to VLSI Design	3	-	3	103430
103520	Electronics	3	-	3	103301
107510	Digital Signal Processing	3	-	3	107400
201410	Operational Research	3	-	3	104230 104101

**5. Free Elective requirement: (3) Credit Hours**

(3) Credit Hours selected by the student from his specialization or any department in the University.