COLLEGE OF ARTS AND SCIENCES
Department of Mathematical and Physical Sciences

Study Plan for B.Sc. in Computer Science

Year	Course Code	Course Name	Pre-requisites	Credit Hours	Course Code	Course Name	Pre-requisites	Credit Hours
	Semester One (Pre-Major)				Semester Two			
1	COMP101/L	Computer Skills	Comp A/B, Digital Literacy	3	COMP151/L	Introduction To Algorithms and Programming (C++)	COMP101/L	4
	MATH116	Pre-calculus I		4	COMP111/L	Digital Logic Design	COMP101/L	3
	BIOL101/L	General Biology		4	ENGL152	English II	ENGL150	3
	ENGL150	English I		3	ARAB101	Arabic II	ARAB100	3
	ARAB100	Arabic I		3	MATH211	Calculus I	MATH116	4
			Semester Total	**17**			**Semester Total**	**17**
	Semester Three				Semester Four			
2	COMP222/L	Object-Oriented Programming	COMP151/L	3	COMP255/L	Data Structure	COMP222/L	3
	COMP221/L	Discrete Structures	MATH116, COMP101/L	3	PHYS101/L	General Physics I	MATH116	4
	COMP233/L	Computer Architecture & Assembly Language	COMP111/L	3	HIST150	Islamic Civilization		3
	STAT101	Introduction to Statistics		4	COMP301/L	Introduction to Java	COMP222/L	3
	ENGL155	Communication Skills	ENGL152	3	COMP277/L	Network and Communications	COMP111/L	3
	MATH145	Linear Algebra	MATH116	3		Department Elective 1		3
			Semester Total	**19**			**Semester Total**	**19**

		Semester Five				Semester Six			
3	COMP340/L	Design and Analysis of Algorithms	COMP221/L, COMP255/L	3	COMP355/L	Fundamentals of Operating Systems	COMP255/L	3
	STAT210	Principles of Probability	STAT101, MATH116	3	COMP366/L	Software System Development	COMP344/L	3
	COMP244/L	Database Concepts and Applications	COMP222/L	3	COMP388/L	Computer Graphics	MATH145, COMP255/L	3
	COMP344/L	Software Engineering	COMP151/L	3		College Elective 1		3
	COMP300/L	Visual Programming	COMP222/L	3		Department Elective 2		
	COMP270/L	Web Development	COMP151/L	3		Department Elective 3		
			Semester Total	**18**			**Semester Total**	**18**
		Semester Seven				Semester Eight			
4	COMP422/L	Introduction to Artificial Intelligence	COMP255/L	3	MNGT100	Entrepreneurship: Creativity and Innovation		3
	COMP433/L	System Programming	COMP355/L	3	COMP499	Project in Computer Science Part 2	COMP498	3
	COMP498	Project in Computer Science Part 1	Completing 100 CHrs, + Section Approval	3		College Elective 2		3
		University Elective		3		Department Elective 5		3
		Department Elective 4		3				
			Semester Total	**15**			**Semester Total**	**12**
				Grand Total: 135					