Bachelor of Science Degree in Computer Science
With Computer Networks Concentration

Degree Plan – Total Credits: 121

First Year	First Semester		Second Semester	
	CS 120 Introduction to Computers and Problem Solving	3	CS 124 Fund of Machine Comp	3
	MATH 136 Precalculus	3	CS 140 Computer Programming in Java	3
	CHEM 131 or BIOL 143 General Chemistry & Lab I, Survey of Life Science	3	MATH 241 Calculus & Analytic Geometry I	4
	ENG 131 Freshman English I	3	ENG 132 Freshman English II	3
	MUSI 131 or ART 131 Intro to Music or Drawing and Comp. I	3	SC 135 or 136 Business & Professional Communication or Public Address	3
		15 hrs		16 hrs

Second Year	Third Semester		Fourth Semester	
	CS 241 Object Oriented Using C++	3	CS 246 Data & File Structures	3
	CS 243 Computer Organization	3	CS 248 Theory of Computation	3
	CS 250 Computer Networks Fundamentals	3	CS 251 Internetworking and Routing Basics	3
	MATH 242 Calculus & Analytic Geometry. II	4	MATH 250 Linear Algebra	3
	PHYS 213 College Physics Lab I	1	PHYS 214 College Physics Lab II	1
	PHYS 237 College Physics I	3	PHYS 238 College Physics II	3
		17 hrs		16 hrs

Third Year	Fifth Semester		Sixth Semester	
	CS 342 Programming Languages and Design	3	CS 343 Microprocessors Design	3
	CS 346 Database Management Systems	3	CS 351 Wide Area Networks Technologies	3
	CS 350 Local Area Networks Fundamentals	3	POLS 236 American Political Systems II	3
	POLS 235 American Political Systems I	3	HIST 232 Social & Political History of the United States since 1877	3
	HIST 231 Social & Political History of the United States to 1877	3	ENG 2__ Any 200 Level ENG may be selected	3
		15 hrs		15 hrs

Fourth Year	Seventh Semester		Eighth Semester	
	CS 415 Computer Ethics and Society	3	CS 444 Operating Systems	3
	CS 450 Network Management and Security	3	CS 451 Introduction to Wireless and Mobile Networks	3
	CS 300 / 400 CS Elective	3	CS 456 Software Engineering	3
	MATH 473 Probability and Statistics	3	CS 499 Capstone Project	3
	ECON 231 Principles of Economics I	3		
		15 hrs		12 hrs