

**ACCELERATED 4+1 BACHELOR AND MASTER DEGREE IN COMPUTER SCIENCE
GENERAL CS CONCENTRATION
DEGREE PLAN – TOTAL CREDITS: 141**

	FIRST SEMESTER		SECOND SEMESTER	
First Year	CS 120 Introduction to Programming using C++	3	CS 124 Fund of Machine Comp	3
	MATH 136 Precalculus	3	CS 140 Computer Programming in Java	3
	CHEM 132 or BIOL 143 (3) General Chemistry, Survey of Life Science	3	MATH 241 Calculus & Analytic Geometry I	4
	ENG 131 Freshman English I	3	ENG 132 Freshman English II	3
	MUSIC 136 or ART 135 (3) Music Appreciation, Topics in Contemporary Art	3	SC 135 or 136 Business & Professional Communication or Public Address	3
	FS 102 Freshman Seminar	1		
		16 hrs		16 hrs
	THIRD SEMESTER		FOURTH SEMESTER	
Second Year	CS 241 Object Oriented Using C++	3	CS 246 Data & File Structures	3
	CS 243 Computer Organization	3	CS 248 Theory of Computation	3
	MATH 242 Calculus & Analytic Geometry. II	4	POLS 235 American Political Systems I	3
	CS 250 Computer Networks Fundamentals	3	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	
	FIFTH SEMESTER		SIXTH SEMESTER	
Third Year	CS 342 Programming Languages and Design	3	CS 346 Database Management Systems	3
	CS 343 Microprocessors Design	3	CS 300 / 400 CS Elective	3
	MATH 345 Applied Math for Scientists or MATH 473 Probability and Statistics I	3	POLS 236 American Political Systems II	3
	HIST 231 Social & Political History of the United States to 1877	3	HIST 232 Social & Political History of the United States since 1877	3
	ENG 2XX Any 200 Level ENG may be selected	3	ECON 231 Principles of Economics I	3
		15 hrs		15 hrs
	SEVENTH SEMESTER		EIGHTH SEMESTER	
Fourth Year	CS 444 Operating Systems	3	CS 456 Software Engineering	3
	CS 415 Computer Ethics and Society	3	CS 499 Capstone Project	3
	CS 4XX (Elective)	3	CS 5XX (Core)	3
	CS 5XX (Core)	3	CS 500/600 Elective	3
	CS 500/600 Elective	3		
	15 hrs		12 hrs	
	NINTH SEMESTER		TENTH SEMESTER	
Fifth Year	CS 5XX (Core)	3	CS 697 or CS 699 Thesis	3
	CS 5XX (Core)	3	CS 500/600 Elective	3
	CS 599	1	CS 500/600 Elective	3
	CS 500/600 elective or CS 698 Thesis	3		
	10 hrs		9 hrs	