

Computer Science Curriculum (120 Credit Hours)

Freshman Year (30)						
First Semester	Class	Hrs.		Second Semester	Class	Hrs.
CS 202	Programming in C++ I	3		CS 203	Programming in C++ II	3
EN 111	Composition I	3		PY 111	Physical Science I	3
SS 111	Social Institutions	3		EN 112	Composition II	3
MA 121/MA122	College Algebra	3		MA 181	Calculus I w/Ana. Geom.	4
CS 100	Intro. to Computers	1		HI 111	World Civilization I	3
UL 101	University Life	1				
	TOTAL	14			TOTAL	16
Sophomore Year (30)						
CS 251	Object Oriented Programming	3		EN 213	Studies in Literature	3
AR 214	Art Appreciation	3		SA 223	Oral Communication	3
MA 182	Calculus II w/Ana. Geom.	4		CS 321	Data Structures and Algorithms	3
PY 217	General Physics (Calculus)	3		MA 304	Discrete Math	3
PY 217L	General Physics (Calculus) Lab	1		_____	Elective(CS380 Python Programming or CS 485 Fundamentals of Cyber Security,)	3
ND 101	Health and Wellness	1				
	TOTAL	15			TOTAL	15
Junior Year (30)						
CS 370	Unix Programming I	3		CS 401	PC Architecture	3
CS 350	Operating Systems	3		CS 360	Software Engineering Principle	3
MA 369	Probability & Statistics	3		MA 346	Linear Algebra	3
CS 420	Database Systems	3		CS 454	Web Application and E-Commerce	3
CS 410	PC Assembly & PC Interface	3		_____	Elective (Unrestricted)	3
	TOTAL	15			TOTAL	15
Senior Year (30)						
CS 465	Databases for Data Analysis	3		CS 441	Computer Net. Telecom II	3
CS 440	Computer Net. Telecom Network I	3		CS 460	Program. Languages & Compilers	3
CS 445	Scientific Computation	3		CS 480	JAVA Programming	3
CS 490	Senior Project in Computer Science	3		_____	Elective (Unrestricted)	3
_____	Elective(CS 486 Data Mining and Machine Learning or CS 488 Introduction to Software Security)	3		_____	Elective (Unrestricted)	3
	TOTAL	15			TOTAL	15