Bachelor o	of Science in Comp	uter Science (Effective Fall 2022)			
UNIVERSITY CORE REQUIREMENTS DEPARTMENTAL REQUIREMENTS					
	Hr		Hr		
EN 1103 English Composition I	3	CSE 1011 Intro to CSE	1		
EN 1113 English Composition II	3	CSE 1284 Intro Comp Programming	4		
Humanities Elective	3	CSE 1384 Inter Comp Programming	4		
Humanities Elective	CSE 2383 Data Struc & Anl of Alg.		3		
Fine Art Elective	3	CSE 2813 Discrete Structures	3		
Social Science Elective	3	CSE 2213 Methods & Tools for Software Development	3		
Social Science Elective	3	CSE 3183 Systems Programming	3		
GE 3513 (Writing)	3	CSE 3724 Computer Organization	4		
UNIVERSITY CORE REQUIREMENTS	24	CSE 3763 Legal & Ethical Issues	3		
DEPARTMENTAL NON-CSE REQ	QUIREMENTS	CSE 4714 Theory & Implementation of Programming	4		
MA 1713 Calculus I	3	implementation of Frogramming			
MA 1723 Calculus II	3	CSE 4833 Algorithms	3		
MA 3113 Linear Algebra	3	CSE 4733 Operating Systems	3		
Math Elective: MA 2733 Calculus III, MA 3053 Foundations of Math, MA 4143 Graph Theory, MA 4173 Number Theory	3	Concentration Courses (or technical electives if no concentration)	9		
IE 4613 Engineering Statistics I or MA 4543 Intro Math Stat I or MA 4523 Intro To Probability or BQA 2113 Bus Stats Method 1	3	Technical Electives (18 hours must be CSE upper level) Free electives	18 14		
CH 1213 Chemistry I	3	DEPARTMENTAL NON-CSE REQUIF	REMENTS 25		
CH 1211 Chemistry Lab	1	TOTAL CSE REQUIRED	79		
the 2 selections must have a lab component): PH 2213 Physics I, PH 2223 Physics II, CH 1223 Chem 2, CH 1221 Chem II Lab, BIO 1134 Bio I, BIO 1144 BIO					
2	6	TOTAL HOURS IN PROG	RAM 128		

Bachelor of Science in Computer Science (Effective Spring 2022)

Concentration Courses

Systems

CSE 4153 Data Communications and Networks

CSE 4163 Designing Parallel Algorithms

CSE 4503 Database Management Systems

CSE 4723 Compiler Construction

CSE 4743 Operating Systems II

Artificial Intelligence

CSE 4633 Artificial Intelligence

CSE 4643 AI Robotics

CSE 4653 Cognitive Science

CSE 4683 Machine Learning and Soft Comp

Computational Science

CSE 4163 Designing Parallel Algorithms

CSE 4623 Computational Biology

MA 4243 Data Analysis I

MA 4313 Numerical Analysis I

MA 3253 Differential Equations I

Human and Visual Computing

CSE 4413 Introduction to Graphics

CSE 4443 Game Design

CSE 4653 Cognitive Science

CSE 4663 Human Computer Interation

IE 4113 Human Factors Engineering

Technical Electives (Computer Science and Software Engineering)

IE 3913 Engineering Economy IE 4653 Industrial Quality Control I

IE 4113 Human Factors Engineering IE 4713 Operations Research

IE 4123 Psychology of HCI IE 4733 Linear Programming I

IE 4333 Production Control Systems IE 4773 Simulation

IE 4533 Project Management BIS 4533 Decision Support Systems

IE 4573 Process Improvement Engineering BIS 4523 Business Prog. with COBOL

IE 4623 Engineering Statistics II

Any upper-level CSE, ECE, or MA course

Technical Electives (Cybersecurity)

Any upper-level CSE, ECE, or MA course not already taken for the degree