

COMBINED COMPUTER SCIENCE, BS/MS

Campus: NYC, Westchester

Course	Title	Credits
First Year		
Fall		
CS 121	Introduction to Computer Science	4
ENG 110	Composition	3
UNV 101	First-Year Seminar: Introduction to University Community	1
Learning Community		6
Area of Knowledge Course		3
		Credits
		17
Spring		
CS 113	Mathematical Structures for Computer Science	4
CS 122	Object-Oriented Programming	4
ENG 120	Critical Writing	4
Civic Engagement		3
		Credits
		15
Second Year		
Fall		
CS 232	Computer Organization	4
CS 241	Data Structures and Algorithms	4
MAT 131	Calculus I	4
Foreign Language I		3
		Credits
		15
Spring		
CS 242	Algorithms and Computing Theory	4
CS 291	Professional Computing Seminar	1
MAT 132 or CS 377	Calculus II or Mathematical Foundations of Machine Learning	4
COM 200	Public Speaking	3
Foreign Language II		3
		Credits
		15
Third Year		
Fall		
CS 361	Programming Languages and Implementation	4
CS 371	Operating Systems and Architecture	4
MAT 234	Introduction to Probability and Statistical Analysis	4
Lab Science (BIO 101, BIO 123, CHE 111, PHY 111)		4
		Credits
		16
Spring		
CS 312	Research Methods in Computers and Society	3
CS 488	Internet and Distributed Computing	4
ENG 201	Writing in the Disciplines	3
Area of Knowledge Course		3
Area of Knowledge Course		3
		Credits
		16
Fourth Year		
Fall		
CS 491	Software Engineering	4

CS 610	Introduction to Parallel Computing	3
Area of Knowledge Course		3
Area of Knowledge Course		3
Credits		13
Spring		
CS 612	Concepts and Structures in Internet Computing	3
CS 623	Database Management Systems	3
Area of Knowledge Course		3
Area of Knowledge Course		3
Area of Knowledge Course		3
Credits		15
Fifth Year		
Fall		
MS CS Elective I		3
MS CS Elective II		3
MS CS Elective III or CS 693		3
Credits		9
Spring		
MS CS Elective IV		3
MS CS Elective V		3
CS 691 or CS 694	Computer Science Capstone Project or Thesis II	3
Credits		9
Total Credits		140