

# COMPUTER SCIENCE MAJOR, BA

Campus: NYC, Westchester

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
UNV 101	First-Year Seminar: Introduction to University Community	1
CS 121	Introduction to Computer Science	4
CS 113	Mathematical Structures for Computer Science	4
ENG 110 or ENG 120	Composition or Critical Writing	3
Learning Community or Civic Engagement (AOK1) elective		3-6
<b>Credits</b>		<b>15-18</b>
<b>Spring</b>		
CS 122	Object-Oriented Programming	4
MAT 130 or MAT 131	Precalculus or Calculus I	4
ENG 120	Critical Writing	4
Learning Community or Civic Engagement (AOK1) elective Or AOK/ARE		3-6
<b>Credits</b>		<b>15-18</b>
<b>Second Year</b>		
<b>Fall</b>		
CS 232	Computer Organization	4
CS 241	Data Structures and Algorithms	4
MAT 131 or MAT 132	Calculus I or Calculus II	4
Second Language I		3
Minor Course		3
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
CS 242	Algorithms and Computing Theory	4
CS 291	Computer Science Practicum	1
MAT 132 or MAT 234	Calculus II or Introduction to Probability and Statistical Analysis	4
ENG 201	Writing in the Disciplines	3
Second Language II		3
<b>Credits</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
CS Requirement or Elective		4
Minor Course		3-4
Lab Science		3-4
MAT 234 Or AOK/ARE Course	Introduction to Probability and Statistical Analysis	4
<b>Credits</b>		<b>14-16</b>
<b>Spring</b>		
CS Requirement or Elective		4
Minor Course		3-4
Lab Science II		3-4
COM 200	Public Speaking	3

AOK/ARE Course		3
<b>Credits</b>		<b>16-18</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CS 491	Software Engineering Capstone	4
Minor Course		4
AOK / ARE		6
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
Minor Course		4
AOK/ARE		3
AOK/ARE or Open Elective		3
Open Elective		3
<b>Credits</b>		<b>13</b>
<b>Total Credits</b>		<b>120-130</b>