

**The College at Brockport, State University of New York**  
**Computer Science Major (Advanced Computing Track)**  
**(Accredited by the Computing Accreditation Commission of ABET)**  
**Meets Current General Education and Mathematics Minor Requirements**

Year Semester	Course (Dept., Number, Title)	Category (credit hours)					
		Computer Science Fundamental	Computer Science Advanced	Mathematics	Science	General Education	Other
Fall Freshman Year (16 credits)	GEP 100 Academic Planning Seminar						1
	ENL 112 College Composition					3	
	Social Science I (S)					3	
	MTH 122 Pre-calculus						3
	CSC 120 Introduction to Computer Science						3
	Free Elective						3
Spring Freshman Year (14 credits)	Fine Arts I (F)					3	
	MTH 201 Calculus I			4			
	MTH 281 Discrete Mathematics I			3			
	CSC 203 Fundamentals of Computer Science I	4					
Fall Sophomore Year (16 credits)	Humanities I (H)					3	
	Laboratory Science 1 (L)				4		
	MTH 202 Calculus II			4			
	CSC 205 Fundamentals of Computer Science II	4					
	CSC 209 UNIX Tools	1					
Spring Sophomore Year (14 credits)	Laboratory Science 2 (L)				4		
	MTH 481 Discrete Mathematics II			3			
	CSC 303 Digital Logic and Computer Design	3					
	CSC 311 Computer Organization and Software Interface	4					
<b>SUBTOTALS</b>		<b>16</b>	<b>0</b>	<b>14</b>	<b>8</b>	<b>12</b>	<b>10</b>

Students may receive transfer and AP exam credits that meet some of the requirements. Students may also receive waivers from some prerequisites. Waivers do not imply allocation of credits.

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		Computer Science Fundamental	Computer Science Advanced	Mathematics	Science	General Education	Other
Fall  Junior Year (15 credits)	Free Elective						2
	Foreign Language 1					3	
	Laboratory Science 3 (L)				4		
	MTH 346 Probability and Statistics I			3			
	CSC 401 Programming Languages	1	2				
Spring Junior Year (15 credits)	Humanities II (H)					3	
	Contemporary Issues (I)					3	
	CSC 406 Algorithms and Data Structures		3				
	CSC 483 Theory of Computation	3					
	CSC Elective 1 *	1-0	2-3				
Fall  Senior Year (15 credits)	Social Science II (S and (D or O))					3	
	CSC 411 Computer Architecture		3				
	CSC 427 Software Engineering	1	2				
	CSC 486 Junior/Senior Seminar (Y)						3
	CSC Elective 2 *	1-0	2-3				
Spring  Senior Year (15 credits)	Fine Arts 2 (P)					3	
	Perspectives on Women (W)					3	
	Mathematics Elective (completes a minor)			3			
	CSC 412 Operating Systems		3				
	CSC Elective 3 *	1-0	2-3				
<b>SUBTOTALS</b>		8-5	19-22	6	4	18	5
<b>TOTALS</b>		24-21	19-22	20	12	30	15

A course carrying multiple codes will satisfy several general education requirements. But students must ensure that a minimum of 15 credits are completed in mathematics, and a minimum of 30 credits are completed in science and mathematics combined. Students should take note of restrictions that apply to general education courses, science courses, mathematics courses, and CSC electives.

\* The split of three credits between core and advanced components depends on the specific elective chosen.