WESTCHESTER COMMUNITY COLLEGE						NEW YORK INSTITUTE OF TECHNOLOGY				
Degree: **A.S.**						Degree: **B.S.**				
Program of Study:	**Computer Science**					Program of Stu **Computer Science**				
Course Prefix	Course Number	Title	Cr.	√		Course Prefix	Course Number	Title	Cr.	CR. APPLY TO 4 YR. DEGREE
CORE REQUIREMENTS										
ENG	101	Writing and Research	3			FCWR	101	Writing I	3	3
ENG	102	Writing and Literature	3			FCWR	151	Writing II	3	3
		Mathematics, must take all 3 courses as follows:	11							
COMSC	210	Discrete Structures for Computer Science				CSCI	235	Elements of Discrete Structures	3	3
MATH	181	Calculus 1				MATH	170	Calculus I	4	4
MATH	191	Calculus 2				MATH	180	Calculus II	4	4
		Natural Sciences - select ONE of the following PAIRS of courses:	8					**Natural Sciences Equivalents**	8	8
BIOL	115	General Biology 1 (and Lab) and *(Recommended)*				BIOL	110	General Biology I		
BIOL	117	General Biology 2 (and Lab)				BIOL	150	General Biology II *-OR-*		
BIOL	121	Anatomy and Physiology 1 (and Lab) and								
BIOL	123	Anatomy and Physiology 2 (and Lab)								
CHEM	107	Inorganic Chemistry 1 (and Lab) and *(Recommended)*				CHEM	110	General Chemistry I		
CHEM	111	Inorganic Chemistry 2 (and Lab)				CHEM	150	General Chemistry II *-OR-*		
CHEM	201	Organic Chemistry 1 (and Lab) and								
CHEM	205	Organic Chemistry 2 (and Lab)								
PHYSC	111	College Physics 1 (plus required lab and workshop) and								
PHYSC	112	College Physics 2 (plus required lab and workshop)								
PHYSC	121	Engineering Physics 1 (and Lab) and *(Recommended)*				PHYS	170	General Physics I		
PHYSC	122	Engineering Physics 2 (and Lab)				PHYS	180	General Physics II		
		Social Sciences - *Recommended* - PSYCH, SOC, or ANTHR	3			ICBS	ELEC	Behavioral Science Seminar*	3	3
		Select a course from ONE of the following categories:	3			LAEL	ELEC	Liberal Arts Elective	3	3
		The Arts, see SUNY Gen Ed Courses								
		Foreign Languages, see SUNY Gen Ed Courses								
		Other World Civilizations, see SUNY Gen Ed Courses								
		Select a course from ONE of the following categories:	3			GEEL	ELEC	General Elective	3	3
		American History, see SUNY Gen Ed Courses								
		Western Civilization, see SUNY Gen Ed Courses								
DEGREE REQUIREMENTS										
COMSC	101	Computer Programming 1	4			CSCI	125	Computer Programming I *and* MATH	4	4
COMSC	110	Computer Programming 2	4			CSCI	185	Computer Programming II *and* MATH	4	4
COMSC	201	Data Structures	4			CSCI	260	Data Structures *and* MATH Elective (1	4	4
COMSC	207	Java Programming	4			ETCS	108	Computer, Internet and Society* *and*	4	4
COMSC	217	Computer Architecture	4			CSCI	155	Computer Org and Architecture *and N*	4	4
		and select TWO courses from the following:	6					**Select TWO equivalent courses:**	6	6
CIVIL		Civil Technology - Any Course								
COMSC	106	IT Essentials 1: PC Hardware and Software								
COMSC	116	LINUX Operating System				CSCI	330	*Operating Systems*		
COMSC	118	Introduction to Networks (CCNA1)				CSCI	345	*Computer Networks*		
COMSC	120	Internship in Computer Science				ETCS	365	*Engineering & Com Sci Internship*		
COMSC	121	IT Essentials 2: NOS								
COMSC	123	Home Technology Integration								
COMSC	124	Routing & Switching Essentials (CCNA2)				CSCI	357	*Cisco Academy Level I*		
COMSC	128	Scaling Networks (CCNA3)								
COMSC	130	Voice Over IP								
COMSC	132	Connecting Networks (CCNA4)								
COMSC	134	Network Administration								
COMSC	136	Advanced Routing Configuration								
COMSC	138	Remote Access								
COMSC	142	Network Security (CS)				CSCI	385	*Network and Internet Security*		
COMSC	145	Intro to Computer Forensics								
COMSC	208A	GUI Development								
COMSC	214	Web Programming				CSCI	360	*Web Site Engineering*		
ELEC		Electrical Technology - Any Course								
MATH	215	Linear Algebra				MATH	310	*Linear Algebra*		
MATH	230	Calculus 3				MATH	260	*Calculus III*		
MATH	240	Differential Equations				MATH	320	*Differential Equations*		
MECH		Mechanical Technology - Any Course								
TOTAL			**60**						**60**	**60**

NOTES:

SUNY WCC general education "gen. ed." course options are located at https://catalog.sunywcc.edu/preview_program.php?catoid=42&poid=3796

NYIT: Grade of C- or higher is required to receive transfer credit for major courses

NYIT: *Transfer substitution awarded on the basis of this agreement   *New York Tech 2021-22 Catalog*