SUFFOLK COUNTY COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
Associate in Science Computer Science		*Bachelor of Science in Computer Science*	
Course	**Credit**	**Course**	**Credit**
First Semester: 15 credits			
CSE 110: Computer Science College Seminar	1	Elective	1
CSE 118: Fundamentals of Programming	3	ETCS 108 Computer, Internet and Society^	3
ENG 101: Standard Freshman Composition	3	FCWR 101 Writing I	3
MAT 141: Calculus with Analytic Geometry I	4	MATH 170 Calculus I	4
Laboratory Science Elective *Recommended:* PHY 130/132 Physics I + Physics I Lab, *or* BIO 150 College Biology I, *or* CHE 133 College Chemistry I	4	PHYS 170 General Physics I, *or* BIOL 110 General Biology I, *or* CHEM 110 General Chemistry I	4
Second Semester: 16 credits			
CSE 148: Object-Oriented Programming	4	CSCI 125 Computer Programming I	3
ENG 102: Introduction to Literature	3	FCWR 151 Writing II	3
MAT 142: Calculus with Analytic Geometry II	4	MATH 180 Calculus II	4
Laboratory Science Elective *Recommended:* PHY 230/232 Physics II + Physics II Lab, *or* BIO 151 College Biology II, *or* CHE 134 College Chemistry II	4	PHYS 180 General Physics II, *or* BIOL 150 General Biology II, *or* CHEM 150 General Chemistry II	4
Physical Education	1	Elective	1
Third Semester: 17 credits			
CSE 218: Data Structures and Algorithms	3	CSCI 260 Data Structures	3
MAT 205: Discrete Mathematics	4	CSCI 235 Elements of Discrete Structures + 1 Math Elective credit	4
History Elective (HIS)^^	3	FCIQ 101 Foundations of Inquiry^	3
Humanities Elective *Recommended:* PHL Philosophy	3	ICPH Philosophy Seminar	3
Laboratory Science Elective	4	Science Equivalent *or* FCSC 101 Foundations of Scientific Process + 1 Science Elective credit	4
Fourth Semester: 16 credits			
CSE 222: Computer Architecture and Organization	3	CSCI 155 Computer Organization and Arch	3
CSE 248: Advanced Object-Oriented Programming	3	CSCI 185 Computer Programming II	3
MAT 210: Applied Linear Algebra	3	MATH 310 Linear Algebra	3
SUNY-GER Foreign Language or The Arts *Recommended:* ENG 202	3	ICLT Literature Seminar	3
Social Science Elective *Recommended*: ANT, PSY, SOC	3	ICBS Behavioral Science Seminar	3
Physical Education	1	Elective	1
TOTAL	**64**	**TOTAL**	**63**

^Transfer substitution awarded on the basis of this agreement.
^^To be selected from HIS101, HIS102, HIS103, HIS104, HIS118, HIS119, or HIS120.
Note – Recommended courses are identified to maximize credits transferred to NYIT.
Fewer credits may transfer if "Recommended" courses are not completed.

Program of Study at New York Institute of Technology
Bachelor of Science in Computer Science

Courses to be completed at NYIT:

Major Courses:		Credits
CSCI 135	Digital Logic Design Fundamentals	3
CSCI 270	Probability and Statistics for CS	3
CSCI 300	Database Management	3
CSCI 312	Theory of Computation	3
CSCI 318	Programming Language Concepts	3
CSCI 330	Operating Systems	3
CSCI 335	Design and Analysis of Algorithms	3
CSCI 345	Computer Networks	3
CSCI 380	Introduction to Software Engineering	3
CSCI 455	Senior Project	3
CSCI Concentration	Network Security *or* Big Data Management and Analytics *or* General Option	12

Core and additional requirements:		
FCSP 105	Foundations of Speech Communication	3
FCWR 304	Communication for Technical Professions	3
ICSS 309	Technology and Global Issues	3
BIOL/CHEM/PHYS	Life Science Elective	3
MATH/SCI	Math/Science Electives	4

Total credits at New York Institute of Technology: 58

Babak D. Beheshti

Dr. Babak Dastgheib-Beheshti, Dean
College of Engineering and Computing Sciences, NYIT

- *Effective as of 2019-20*