SUFFOLK COUNTY COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY <mark>2022</mark>	
Associate in Applied Science Information Technology **Computer Information Systems Option**		*Bachelor of Science in Computer Science*	
Course	**Credit**	**Course**	**Credit**
First Semester: 17 credits			
COL 101: College Seminar	1	-	-
CST 111: Intro to Computer Science and Info Tech	4	ETCS 108 Computer, Internet and Society	3
CST 112: Introduction to Programming	4	-	-
ENG 101: Standard Freshman Composition	3	FCWR 101 Writing I	3
MAT 107: Computer Mathematics Concepts	4	Mathematics Elective	3
Physical Education	1	-	-
Second Semester: 16-18 credits			
CST 141: Principles of Computing with Java	4	CSCI 125 Computer Programming I	3
CSE or CST Elective (excluding CST 101)	3-4	Computer Science Elective	3
ENG 121: Technical Writing	3	FCWR 151 Writing II	3
MAT 103: Statistics I, *or* MAT 121: Finite Mathematics or higher	3-4	Mathematics Elective	3
Social Sciences Elective *Recommended:* HIS History	3	Mathematics & Science Electives^	3
Third Semester: 15-16 credits			
CST 171: Relational Database Applications and Concepts	4	CSCI 300 Database Management	3
CST 242: Advanced Programming Problem Solving w Java	4	CSCI 185 Computer Programming II	3
CSE or CST Elective (excluding CST 101)	3-4	Computer Science Elective	3
Humanities Elective *Recommended:* ENG Literature* *or* PHL Philosophy	3	Equivalent ICLT Literature *or* ICPH Philosophy Seminar	3
Physical Education	1	-	-
Fourth Semester: 13-15 credits			
CST 288: Cooperative Education/Internships for Computing Technology *or* BUS 150: Cooperative Education in Business	3-4	CSCI 460 Special Topics I	3
Business or Accounting Elective (ACC 101, BUS 101, BUS 127)	3-4	Elective	3
CST 272: Programming for Relational Database Management Systems	4	CSCI 401 Database Interfaces and Programming	3
Social Sciences Elective *Recommended*: ANT, PSY, SOC	3	ICBS Behavioral Science Seminar	3
Minimum Credits Required	**61**	**TOTAL**	**48**

^Transfer substitution awarded on the basis of this agreement
Note – Recommended courses are identified to maximize transfer credit award to NYIT.
Fewer credits may transfer if "Recommended" courses are not completed.

*Literature: ENG 202, ENG 205, ENG 206, ENG 209, ENG 210, ENG 211, ENG 212, ENG 213, ENG 214, ENG 215, ENG 216, ENG 217, ENG 218, ENG 219, ENG 220, ENG 221, ENG 223, ENG 226

Program of Study at New York Institute of Technology:
<u>Bachelor of Science in Computer Science</u>

Courses to be completed at NYIT:

<u>Major Courses:</u>		<u>Credits</u>
CSCI 135	Digital Logic Design Fundamentals	3
CSCI 155	Computer Organization and Architecture	3
CSCI 235	Elements of Discrete Structures	3
CSCI 260	Data Structures	3
CSCI 270	Probability and Statistics for CS	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 456	Senior Project I	2
CSCI 457	Senior Project II	2

<u>Mathematics</u>		
MATH 170	Calculus I	4
MATH 180	Calculus II	4
MATH 310	Linear Algebra	3

<u>Science</u>		
PHYS 170	General Physics I (4)	
PHYS 180	General Physics II (4)	
BIOL/CHEM	Biology/Chemistry Elective (3), *or*	
CHEM 110	General Chemistry I (4)	
CHEM 150	General Chemistry II (4)	
PHYS ELEC	Physics Elective (3), *or*	
BIOL 110	General Biology I (4)	
BIOL 150	General Biology II (4)	
PHYS ELEC	Physics Elective (3)	11

<u>Core and additional requirements:</u>		
CSCI 3/4XX	Computer Science Elective	3
FCSC 101	Foundations of Scientific Process	3
FCWR 304	Comm for Technical Professions	3
ICLT or ICPH**	Literature *or* Philosophy Seminar	3
ICSS 309	Technology and Global Issues	<u>3</u>

Total credits at New York Institute of Technology: <u>74</u>

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

- *Effective Fall 2022*

**Seminar required depends on "Humanities" course completed at Suffolk CCC